

KABKOM

"We sign your cable"



• HFFR • XL-HFFR
• CROSSLINKABLE • POLYMER

SHEATH

- HFFR
- XL-HFFR
- LLDPE (NATURAL, BLACK, UV)
- HDPE (NATURAL, BLACK, UV)

BEDDING

- HFFR
- HF
- RUBBER
- PE BEDDING

INSULATION

- HFFR
- XL-HFFR
- LLDPE
- HDPE



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CPR COMPOUNDS



KABKOM



Product Information:

SX-4B2 is UV thermoplastic halogen free, flame retardant and low smoke emission compound, for cable insulation and sheathing. It can be used for the production of energy, signal and control cables.

The properties of this compound comply with the requirements of TS

HD 604 S1 type M1-M16

VDE 0250 Part 215 type HM5

EN 50363-7 type TI7

VDE 0207 Part 24 type HM2

Product Data:

Property	Test Method	Unit	Value
Physical Properties			
Melt Flow Rate (150°C-21,6 kg)	ASTM D 1238	gr/10 min	6
Specific Weight (23°C)	ASTM D-792	gr/cm ³	1,55
Hardness	ISO 868	Shore D	51
Mechanical Properties			
Tensile Strength	ISO 527	Mpa	11,5
Elongation at Break	ISO 527	%	150
Heat Ageing (100 °C, 168 h)	IEC 60811		
Δ Strength		%	-30
Δ Elongation		%	±40
Tear Strength	ASTM D 1938	N/mm	4
Hot Pressure Test at 80 °C	IEC 60811	%	<50
Cold Flex	ISO 458-2	°C	-18±2
Cold Bend (-15 °C±2 °C)	IEC 60811-504	-	No Cracks
Cold Elongation (-15 °C±2 °C)	IEC 60811-505	-	30 Min.
Cold Impact (-15 °C±2 °C)	IEC 60811-506	-	Pass
Chemical Properties			
Halogen Content	EN 60754-1	%	<0,5 Max.
pH	IEC 60754-2	-	>4.3
Conductivity	IEC 60754-2	μS/mm	<10
Water Absorption	IEC 60811	mg/cm ²	<5.0
LOI	ISO 4589	%	49
Smoke Density	EN-61034	% transmittance	>80
Volume Resistivity 20 °C (Alternating Polarity Method)	ASTM D257 Electrodes	Ω.cm	1.10 ¹⁵
Other Properties			
Oil IRM 902 oil (70 °C, 4 h)	IEC 60811-404		
Δ Strength		%	10
Δ Elongation		%	9

Processing:

Extrusion Temperatures: 115 °C–125 °C–130 °C –135°C –145°C–155 °C (Processing with Die Plate 40 Mesh Filter)

Extrusion Temperatures: 120 °C–125 °C–135 °C –145°C –155°C–165 °C (Processing without Die Plate and Filter)

Packaging:

It is packaged as 1250 kg in octabin.

Storage&Handling:

SX-4B2 should be stored in a manner that avoids direct exposure to sunlight and heat (T<30°C). This compound should be used within 6 months after its production date. After this time it's necessary to dry the material before extrusion.

Product Information:

SX-4C is UV thermoplastic halogen free, flame retardant and low smoke emission compound, for cable insulation and sheathing. It can be used for the production of energy, signal and control cables.

The properties of this compound comply with the requirements of,

TS HD 604 S1 type M1-M16

VDE 0250 Part 215 type HM5

EN 50363-8 type TM7

VDE 0207 Part 24 type HM2

Product Data:

Property	Test Method	Unit	Value
Physical Properties			
Melt Flow Rate (150°C-21,6 kg)	ASTM D 1238	gr/10 min	5,5
Specific Weight (23°C)	ASTM D-792	gr/cm ³	1,56
Hardness	ISO 868	Shore D	50
Mechanical Properties			
Tensile Strength	ISO 527	Mpa	12
Elongation at Break	ISO 527	%	155
Heat Ageing (100 °C, 168 h)	IEC 60811		
Δ Strength		%	-30
Δ Elongation		%	±40
Tear Strength	ASTM D 1938	N/mm	4
Hot Pressure Test at 80 °C	IEC 60811	%	<50
Cold Flex	ISO 458-2	°C	-18±2
Cold Bend (-15 °C±2 °C)	IEC 60811-504	-	No Cracks
Cold Elongation (-15 °C±2 °C)	IEC 60811-505	-	30 Min.
Cold Impact (-15 °C±2 °C)	IEC 60811-506	-	Pass
Chemical Properties			
Halogen Content	EN 60754-1	%	<0,5 Max.
pH	IEC 60754-2	-	>4.3
Conductivity	IEC 60754-2	μS/mm	<10
Water Absorption	IEC 60811	mg/cm ²	<5.0
LOI	ISO 4589	%	46
Smoke Density	EN-61034	% transmittance	>80
Volume Resistivity 20 °C (Alternating Polarity Method)	ASTM D257 Electrodes	Ω.cm	1.10 ¹⁵
Other Properties			
Oil IRM 902 oil (70 °C, 4 h)	IEC 60811-404		
Δ Strength		%	10
Δ Elongation		%	9

Processing:

Extrusion Temperatures: 115 °C–125 °C–130 °C –135°C –145°C–155 °C (Processing with Die Plate 40 Mesh Filter)

Extrusion Temperatures: 120 °C–125 °C–135 °C –145°C –155°C–165 °C (Processing without Die Plate and Filter)

Packaging:

It is packaged as 1250 kg in octabin.

Storage&Handling:

SX-4C should be stored in a manner that avoids direct exposure to sunlight and heat (T<30°C). This compound should be used within 6 months after its production date. After this time it's necessary to dry the material before extrusion.

Product Information:

SX-4CB is thermoplastic halogen free, flame retardant and low smoke emission compound, for cable insulation and sheathing. It can be used for the production of energy, signal and control cables.

SX-4CB is a halogen-free flame retardant charcoal forming compound that improves drip behavior and crust formation as well as flame retardant properties.

The properties of this compound comply with the requirements of,

TS HD 604 S1 type M1-M16

VDE 0207 Part 24 type HM2

VDE 0250 Part 215 type HM5

Product Data:

Property	Test Method	Unit	Value
Physical Properties			
Melt Flow Rate (150°C-21,6 kg)	ASTM D 1238	gr/10 min	6
Specific Weight (23°C)	ASTM D-792	gr/cm ³	1,55
Hardness	ISO 868	Shore D	51
Mechanical Properties			
Tensile Strength	ISO 527	Mpa	12
Elongation at Break	ISO 527	%	150
Heat Ageing (100 °C, 168 h)	IEC 60811		
Δ Strength		%	-30
Δ Elongation		%	±40
Tear Strength	ASTM D 1938	N/mm	4,5
Hot Pressure Test at 80 °C	IEC 60811	%	<50
Cold Flex	ISO 458-2	°C	-18±2
Cold Bend (-15 °C±2 °C)	IEC 60811-504	-	No Cracks
Cold Elongation (-15 °C±2 °C)	IEC 60811-505	-	30 Min.
Cold Impact (-15 °C±2 °C)	IEC 60811-506	-	Pass
Chemical Properties			
Halogen Content	EN 60754-1	%	<0,5 Max.
pH	IEC 60754-2	-	>4.3
Conductivity	IEC 60754-2	μS/mm	<10
Water Absorption	IEC 60811	mg/cm ²	<5.0
LOI	ISO 4589	%	42
Smoke Density	EN-61034	% transmittance	>80
Volume Resistivity 20 °C (Alternating Polarity Method)	ASTM D257 Electrodes	Ω.cm	1.10 ¹⁵
Other Properties			
Oil IRM 902 oil (70 °C, 4 h)	IEC 60811-404		
Δ Strength		%	10
Δ Elongation		%	9

Processing:

Extrusion Temperatures: 115 °C–125 °C–130 °C –135°C –145°C–155 °C (Processing with Die Plate 40 Mesh Filter)

Extrusion Temperatures: 120 °C–125 °C–135 °C –145°C –155°C–165 °C (Processing without Die Plate and Filter)

Packaging:

It is packaged as 1250 kg in octabin.

Storage&Handling:

SX-4CB should be stored in a manner that avoids direct exposure to sunlight and heat (T<30°C). This compound should be used within 6 months after its production date. After this time it's necessary to dry the material before extrusion.

Product Information:

SX-4D1 is thermoplastic halogen free, flame retardant and low smoke emission compound, for cable insulation and sheathing. It can be used for the production of energy, signal and control cables.

SX-4D1 is a halogen-free flame retardant charcoal forming compound that improves drip behavior and crust formation as well as flame retardant properties.

The properties of this compound comply with the requirements of,

TS HD 604 S1 type M1-M16

VDE 0207 Part 24 type HM2

VDE 0250 Part 215 type HM5

Product Data:

Property	Test Method	Unit	Value
Physical Properties			
Melt Flow Rate (150°C-21,6 kg)	ASTM D 1238	gr/10 min	4,5
Specific Weight (23°C)	ASTM D-792	gr/cm ³	1,56
Hardness	ISO 868	Shore D	54
Mechanical Properties			
Tensile Strength	ISO 527	Mpa	12
Elongation at Break	ISO 527	%	180
Heat Ageing (100 °C, 168 h)	IEC 60811		
Δ Strength		%	-30
Δ Elongation		%	±40
Tear Strength	ASTM D 1938	N/mm	4
Hot Pressure Test at 80 °C	IEC 60811	%	<50
Cold Flex	ISO 458-2	°C	-18±2
Cold Bend (-15 °C±2 °C)	IEC 60811-504	-	No Cracks
Cold Elongation (-15 °C±2 °C)	IEC 60811-505	-	30 Min.
Cold Impact (-15 °C±2 °C)	IEC 60811-506	-	Pass
Chemical Properties			
Halogen Content	EN 60754-1	%	<0,5 Max.
pH	IEC 60754-2	-	>4.3
Conductivity	IEC 60754-2	μS/mm	<10
Water Absorption	IEC 60811	mg/cm ²	<5.0
LOI	ISO 4589	%	46
Smoke Density	EN-61034	% transmittance	>80
Volume Resistivity 20 °C (Alternating Polarity Method)	ASTM D257 Electrodes	Ω.cm	1.10 ¹⁵
Other Properties			
Oil IRM 902 oil (70 °C, 4 h)	IEC 60811-404		
Δ Strength		%	10
Δ Elongation		%	9

Processing:

Extrusion Temperatures: 115 °C–125 °C–130 °C –135°C –145°C–155 °C (Processing with Die Plate 40 Mesh Filter)

Extrusion Temperatures: 120 °C–125 °C–135 °C –145°C –155°C–165 °C (Processing without Die Plate and Filter)

Packaging:

It is packaged as 1250 kg in octabin.

Storage&Handling:

SX-4D1 should be stored in a manner that avoids direct exposure to sunlight and heat (T<30°C). This compound should be used within 6 months after its production date. After this time it's necessary to dry the material before extrusion.

Product Information:

SX-4DUV is UV thermoplastic, halogen free, flame retardant and low smoke emission compound, for cable insulation and sheathing. It can be used for the production of energy, signal and control cables.

SX-4DUV is a halogen-free flame retardant charcoal forming compound that improves drip behavior and crust formation as well as flame retardant properties.

The properties of this compound comply with the requirements of,

TS HD 604 S1 type M1-M16

VDE 0207 Part 24 type HM2

VDE 0250 Part 215 type HM5

Product Data:

Property	Test Method	Unit	Value
Physical Properties			
Melt Flow Rate (150°C-21,6 kg)	ASTM D 1238	gr/10 min	4,5
Specific Weight (23°C)	ASTM D-792	gr/cm ³	1,56
Hardness	ISO 868	Shore D	54
Mechanical Properties			
Tensile Strength	ISO 527	Mpa	12
Elongation at Break	ISO 527	%	175
Heat Ageing (100 °C, 168 h)	IEC 60811		
Δ Strength		%	-30
Δ Elongation		%	±40
Tear Strength	ASTM D 1938	N/mm	4
Hot Pressure Test at 80 °C	IEC 60811	%	<50
Cold Flex	ISO 458-2	°C	-18±2
Cold Bend (-15 °C±2 °C)	IEC 60811-504	-	No Cracks
Cold Elongation (-15 °C±2 °C)	IEC 60811-505	-	30 Min.
Cold Impact (-15 °C±2 °C)	IEC 60811-506	-	Pass
Chemical Properties			
Halogen Content	EN 60754-1	%	<0,5 Max.
pH	IEC 60754-2	-	>4.3
Conductivity	IEC 60754-2	μS/mm	<10
Water Absorption	IEC 60811	mg/cm ²	<5.0
LOI	ISO 4589	%	46
Smoke Density	EN-61034	% transmittance	>80
Volume Resistivity 20 °C (Alternating Polarity Method)	ASTM D257 Electrodes	Ω.cm	1.10 ¹⁵
Other Properties			
Oil IRM 902 oil (70 °C, 4 h)	IEC 60811-404		
Δ Strength		%	10
Δ Elongation		%	9

Processing:

Extrusion Temperatures: 115 °C–125 °C–130 °C –135°C–145°C–155 °C (Processing with Die Plate 40 Mesh Filter)

Extrusion Temperatures: 120 °C–125 °C–135 °C –145°C –155°C–165 °C (Processing without Die Plate and Filter)

Packaging:

It is packaged as 1250 kg in octabin.

Storage&Handling:

SX-4DUV should be stored in a manner that avoids direct exposure to sunlight and heat (T<30°C). This compound should be used within 6 months after its production date. After this time it's necessary to dry the material before extrusion.

Product Information:

SX-4E1 is UV thermoplastic halogen free, flame retardant and low smoke emission compound, for cable insulation and sheathing. It can be used for the production of energy, signal and control cables.

The properties of this compound comply with the requirements of,

TS HD 604 S1 type M1-M16

VDE 0207 Part 24 type HM2

VDE 0250 Part 215 type HM5

Product Data:

Property	Test Method	Unit	Value
Physical Properties			
Melt Flow Rate (150°C-21,6 kg)	ASTM D 1238	gr/10 min	6,5
Specific Weight (23°C)	ASTM D-792	gr/cm ³	1,55
Hardness	ISO 868	Shore D	50
Mechanical Properties			
Tensile Strength	ISO 527	Mpa	12
Elongation at Break	ISO 527	%	155
Heat Ageing (100 °C, 168 h)	IEC 60811		
Δ Strength		%	-30
Δ Elongation		%	±40
Tear Strength	ASTM D 1938	N/mm	5
Hot Pressure Test at 80 °C	IEC 60811	%	<50
Cold Flex	ISO 458-2	°C	-18±2
Cold Bend (-15 °C±2 °C)	IEC 60811-504	-	No Cracks
Cold Elongation (-15 °C±2 °C)	IEC 60811-505	-	30 Min.
Cold Impact (-15 °C±2 °C)	IEC 60811-506	-	Pass
Chemical Properties			
Halogen Content	EN 60754-1	%	<0,5 Max.
pH	IEC 60754-2	-	>4.3
Conductivity	IEC 60754-2	μS/mm	<10
Water Absorption	IEC 60811	mg/cm ²	<5.0
LOI	ISO 4589	%	43
Smoke Density	EN-61034	% transmittance	>80
Volume Resistivity 20 °C (Alternating Polarity Method)	ASTM D257 Electrodes	Ω.cm	1.10 ¹⁵
Other Properties			
Oil IRM 902 oil (70 °C, 4 h)	IEC 60811-404		
Δ Strength		%	10
Δ Elongation		%	9

Processing:

Extrusion Temperatures: 115 °C–125 °C–130 °C –135°C –145°C–155 °C (Processing with Die Plate 40 Mesh Filter)

Extrusion Temperatures: 120 °C–125 °C–135 °C –145°C –155°C–165 °C (Processing without Die Plate and Filter)

Packaging:

It is packaged as 1250 kg in octabin.

Storage&Handling:

SX-4E1 should be stored in a manner that avoids direct exposure to sunlight and heat (T<30°C). This compound should be used within 6 months after its production date. After this time it's necessary to dry the material before extrusion.

Product Information:

SX-40S is UV thermoplastic halogen free, flame retardant and low smoke emission compound, for cable insulation and sheathing. It can be used for the production of energy, signal and control cables.

The properties of this compound comply with the requirements of,

TS HD 604 S1 type M1-M16

VDE 0207 Part 24 type HM2

VDE 0250 Part 215 type HM5

Product Data:

Property	Test Method	Unit	Value
Physical Properties			
Melt Flow Rate (150°C-21,6 kg)	ASTM D 1238	gr/10 min	3,5
Specific Weight (23°C)	ASTM D-792	gr/cm ³	1,55
Hardness	ISO 868	Shore D	54
Mechanical Properties			
Tensile Strength	ISO 527	Mpa	12,5
Elongation at Break	ISO 527	%	160
Heat Ageing (100 °C, 168 h)	DIN VDE 0207		
Δ Strength		%	-30
Δ Elongation		%	±40
Tear Strength	ASTM D 1938	N/mm	4,5
Hot Pressure Test at 80 °C	IEC 60811	%	<50
Cold Flex	ISO 458-2	°C	-18±2
Cold Bend (-15 °C±2 °C)	IEC 60811-504	-	No Cracks
Cold Elongation (-15 °C±2 °C)	IEC 60811-505	-	30 Min.
Cold Impact (-15 °C±2 °C)	IEC 60811-506	-	Pass
Chemical Properties			
Halogen Content	EN 60754-1	%	<0,5 Max.
pH	IEC 60754-2	-	>4.3
Conductivity	IEC 60754-2	μS/mm	<10
Water Absorption	IEC 60811	mg/cm ²	<5.0
LOI	ISO 4589	%	46
Smoke Density	EN-61034	% transmittance	>80
Volume Resistivity 20 °C (Alternating Polarity Method)	ASTM D257 Electrodes	Ω.cm	1.10 ¹⁵
Other Properties			
Oil IRM 902 oil (70 °C, 4 h)	IEC 60811-404		
Δ Strength		%	10
Δ Elongation		%	9

Processing:

Extrusion Temperatures: 115 °C–125 °C–130 °C –135°C –145°C–155 °C (Processing with Die Plate 40 Mesh Filter)

Extrusion Temperatures: 120 °C–125 °C–135 °C –145°C –155°C–165 °C (Processing without Die Plate and Filter)

Packaging:

It is packaged as 1250 kg in octabin.

Storage&Handling:

SX-40S should be stored in a manner that avoids direct exposure to sunlight and heat (T<30°C). This compound should be used within 6 months after its production date. After this time it's necessary to drv the material before extrusion.

Product Information:

SX-50S is UV thermoplastic halogen free, flame retardant and low smoke emission compound, for cable insulation and sheathing. It can be used for the production of energy, signal and control cables.

The properties of this compound comply with the requirements of,

TS HD 604 S1 type M1-M16

VDE 0250 Part 215 type HM5

TS EN 50399

VDE 0207 Part 24 type HM2

Product Data:

Property	Test Method	Unit	Value
Physical Properties			
Melt Flow Rate (150°C-21,6 kg)	ASTM D 1238	gr/10 min	4
Specific Weight (23°C)	ASTM D-792	gr/cm ³	1,55
Hardness	ISO 868	Shore D	53
Mechanical Properties			
Tensile Strength	ISO 527	Mpa	12
Elongation at Break	ISO 527	%	155
Heat Ageing (100 °C, 168 h)	DIN VDE 0207		
Δ Strength		%	-30
Δ Elongation		%	±40
Tear Strength	ASTM D 1938	N/mm	4
Hot Pressure Test at 80 °C	IEC 60811	%	<50
Cold Flex	ISO 458-2	°C	-18±2
Cold Bend (-15 °C±2 °C)	IEC 60811-504	-	No Cracks
Cold Elongation (-15 °C±2 °C)	IEC 60811-505	-	30 Min.
Cold Impact (-15 °C±2 °C)	IEC 60811-506	-	Pass
Chemical Properties			
Halogen Content	EN 60754-1	%	<0,5 Max.
pH	IEC 60754-2	-	>4.3
Conductivity	IEC 60754-2	μS/mm	<10
Water Absorption	IEC 60811	mg/cm ²	<5.0
LOI	ISO 4589	%	45
Smoke Density	EN-61034	% transmittance	>80
Volume Resistivity 20 °C (Alternating Polarity Method)	ASTM D257 Electrodes	Ω.cm	1.10 ¹⁵
Other Properties			
Oil IRM 902 oil (70 °C, 4 h)	IEC 60811-404		
Δ Strength		%	10
Δ Elongation		%	9

Processing:

Extrusion Temperatures: 115 °C–125 °C–130 °C –135°C –145°C–155 °C (Processing with Die Plate 40 Mesh Filter)

Extrusion Temperatures: 120 °C–125 °C–135 °C –145°C –155°C–165 °C (Processing without Die Plate and Filter)

Packaging:

It is packaged as 1250 kg in octabin.

Storage&Handling:

SX-50S should be stored in a manner that avoids direct exposure to sunlight and heat (T<30°C). This compound should be used within 6 months after its production date. After this time it's necessary to dry the material before extrusion.

Product Information:

SX-MYO is thermoplastic halogen free, flame retardant and low smoke emission compound, for cable insulation and sheathing. It can be used for the production of energy, signal and control cables. SX-MYO is a halogen-free flame retardant charcoal forming compound that improves drip behavior and crust formation as well as flame retardant properties.

The properties of this compound comply with the requirements of;

TS HD 604 S1 type M1-M16

VDE 0250 Part 215 type HM5

VDE 0207 Part 24 type HM2

Product Data:

Property	Test Method	Unit	Value
Physical Properties			
Melt Flow Rate (150°C-21,6 kg)	ASTM D 1238	gr/10 min	7,5
Specific Weight (23°C)	ASTM D-792	gr/cm ³	1,51
Hardness	ISO 868	Shore D	53
Mechanical Properties			
Tensile Strength	ISO 527	Mpa	12
Elongation at Break	ISO 527	%	200
Heat Ageing (100 °C, 168 h)	IEC 60811		
Δ Strength		%	-30
Δ Elongation		%	±40
Tear Strength	ASTM D 1938	N/mm	7
Hot Pressure Test at 80 °C	IEC 60811	%	<50
Cold Flex	ISO 458-2	°C	-18±2
Cold Bend (-15 °C±2 °C)	IEC 60811-504	-	No Cracks
Cold Elongation (-15 °C±2 °C)	IEC 60811-505	-	30 Min.
Cold Impact (-15 °C±2 °C)	IEC 60811-506	-	Pass
Chemical Properties			
Halogen Content	EN 60754-1	%	<0,5 Max.
pH	IEC 60754-2	-	>4.3
Conductivity	IEC 60754-2	μS/mm	<10
Water Absorption	IEC 60811	mg/cm ²	<5.0
LOI	ISO 4589	%	42
Smoke Density	EN-61034	% transmittance	>80
Volume Resistivity 20 °C (Alternating Polarity Method)	ASTM D257 Electrodes	Ω.cm	1.10 ¹⁵
Other Properties			
Oil IRM 902 oil (70 °C, 4 h)	IEC 60811-404		
Δ Strength		%	10
Δ Elongation		%	9

Processing:

Extrusion Temperatures: 115 °C–125 °C–130 °C –135°C –145°C–155 °C (Processing with Die Plate 40 Mesh Filter)

Extrusion Temperatures: 120 °C–125 °C–135 °C –145°C –155°C–165 °C (Processing without Die Plate and Filter)

Packaging:

It is packaged as 1250 kg in octabin.

Storage&Handling:

SX-MYO should be stored in a manner that avoids direct exposure to sunlight and heat (T<30°C). This compound should be used within 6 months after its production date. After this time it's necessary to dry the material before extrusion.

HM2 COMPOUNDS



KABKOM

Product Information:

SX-2D is UV thermoplastic, flame retardant and halogen free compound on polyolefinic basis. It can be used for production of energy, signal and control cables.

Properties of this compound comply with the requirements of,

TS HD 604 S1 type M1; EN 50363-7 type TI6
 EN 50363-8 type TM7; EN 50290-2-27
 VDE 0207 Part 24 type HM2-HJ2

VDE 0250 Part 215 type HM5
 BS 7655 type LTS1 & LTS3; IEC 60092-360 type SHF1
 IEC 60502 ST8

Product Data:

Property	Test Method	Unit	Value
Physical Properties			
Melt Flow Rate (150°C-21,6 kg)	ASTM D 1238	gr/10 min	8,5
Specific Weight (23°C)	ASTM D-792	gr/cm ³	1,53
Hardness	ISO 868	Shore D	49
Mechanical Properties			
Tensile Strength	ISO 527	Mpa	13
Elongation at Break	ISO 527	%	175
Heat Ageing (100 °C, 168 h)	IEC 60811		
Δ Strength		%	-30
Δ Elongation		%	±40
Tear Strength	ASTM D 1938	N/mm	6
Hot Pressure Test at 80 °C	IEC 60811	%	<50
Cold Flex	ISO 458-2	°C	-20±2
Cold Bend (-15 °C±2 °C)	IEC 60811-504	-	No Cracks
Cold Elongation (-15 °C±2 °C)	IEC 60811-505	-	30 Min.
Cold Impact (-15 °C±2 °C)	IEC 60811-506	-	Pass
Chemical Properties			
Halogen Content	EN 60754-1	%	<0,5 Max.
pH	ICE 60754-2	-	>4.3
Conductivity	IEC 60754-2	μS/mm	<10
Water Absorption	IEC 60811	mg/cm ²	<5.0
LOI	ISO 4589	%	38
Smoke Density	EN-61034	% transmittance	>80
Volume Resistivity 20 °C (Alternating Polarity Method)	ASTM D257 Electrodes	Ω.cm	1.10 ¹⁵
Other Properties			
Oil IRM 902 oil (70 °C, 4 h)	IEC 60811-404		
Δ Strength		%	10
Δ Elongation		%	9

Processing:

Extrusion Temperatures: 115 °C–125 °C–130 °C –135°C –145°C–155 °C (Processing with Die Plate 40 Mesh Filter)

Extrusion Temperatures: 120 °C–125 °C–135 °C –145°C –155°C–165 °C (Processing without Die Plate and Filter)

Packaging:

It is packaged as 1250 kg in octabin.

Storage&Handling:

SX-2D should be stored in a manner that avoids direct exposure to sunlight and heat (T<30°C). This compound should be used within 6 months after its production date. After this time it's necessary to dry the material before extrusion.

Product Information:

SX-2E is UV thermoplastic, flame retardant and halogen free compound on polyolefinic basis. It can be used for production of energy, signal and control cables.

Properties of this compound comply with the requirements of,

TS HD 604 S1 type M1; EN 50363-7 type T16

EN 50363-8 type TM7; EN 50290-2-27

VDE 0207 Part 24 type HM2; VDE 0207 Part 23 type HJ2

VDE 0250 Part 215 type HM5

BS 7655 type LTS1 & LTS3, IEC 60092-360 type SHF1

IEC 60502 ST8

Product Data:

Property	Test Method	Unit	Value
Physical Properties			
Melt Flow Rate (150°C-21,6 kg)	ASTM D 1238	gr/10 min	9
Specific Weight (23°C)	ASTM D-792	gr/cm ³	1,52
Hardness	ISO 868	Shore D	49
Mechanical Properties			
Tensile Strength	ISO 527	Mpa	12
Elongation at Break	ISO 527	%	175
Heat Ageing (100 °C, 168 h)	IEC 60811		
Δ Strength		%	-30
Δ Elongation		%	±40
Tear Strength	ASTM D 1938	N/mm	5
Hot Pressure Test at 80 °C	IEC 60811	%	<50
Cold Flex	ISO 458-2	°C	-20±2
Cold Bend (-15 °C±2 °C)	IEC 60811-504	-	No Cracks
Cold Elongation (-15 °C±2 °C)	IEC 60811-505	-	30 Min.
Cold Impact (-15 °C±2 °C)	IEC 60811-506	-	Pass
Chemical Properties			
Halogen Content	EN 60754-1	%	<0,5 Max.
pH	IEC 60754-2	-	>4.3
Conductivity	IEC 60754-2	μS/mm	<10
Water Absorption	IEC 60811	mg/cm ²	<5.0
LOI	ISO 4589	%	38
Smoke Density	EN-61034	% transmittance	>80
Volume Resistivity 20 °C (Alternating Polarity Method)	ASTM D257 Electrodes	Ω.cm	1.10 ¹⁵
Other Properties			
Oil IRM 902 oil (70 °C, 4 h)	IEC 60811-404		
Δ Strength		%	10
Δ Elongation		%	9

Processing:

Extrusion Temperatures: 115 °C–125 °C–130 °C –135°C –145°C–155 °C (Processing with Die Plate 40 Mesh Filter)

Extrusion Temperatures: 120 °C–125 °C–135 °C –145°C –155°C–165 °C (Processing without Die Plate and Filter)

Packaging:

It is packaged as 1250 kg in octabin.

Storage&Handling:

SX-2E should be stored in a manner that avoids direct exposure to sunlight and heat (T<30°C). This compound should be used within 6 months after its production date. After this time it's necessary to dry the material before extrusion.

Product Information:

SX-2E1 is UV thermoplastic, flame retardant and halogen free compound on polyolefinic basis. It can be used for production of energy, signal and control cables.

Properties of this compound comply with the requirements of,

TS HD 604 S1 type M1; EN 50363-7 type T16

EN 50363-8 type TM7; EN 50290-2-27

VDE 0207 Part 24 type HM2-HJ2

VDE 0250 Part 215 type HM5

BS 7655 type LTS1 & LTS3; IEC 60092-360 type SHF1

IEC 60502 ST8

Product Data:

Property	Test Method	Unit	Value
Physical Properties			
Melt Flow Rate (150°C-21,6 kg)	ASTM D 1238	gr/10 min	10
Specific Weight (23°C)	ASTM D-792	gr/cm ³	1,51
Hardness	ISO 868	Shore D	51
Mechanical Properties			
Tensile Strength	ISO 527	Mpa	13
Elongation at Break	ISO 527	%	195
Heat Ageing (100 °C, 168 h)	IEC 60811		
Δ Strength		%	-30
Δ Elongation		%	±40
Tear Strength	ASTM D 1938	N/mm	5
Hot Pressure Test at 80 °C	IEC 60811	%	<50
Cold Flex	ISO 458-2	°C	-20±2
Cold Bend (-15 °C±2 °C)	IEC 60811-504	-	No Cracks
Cold Elongation (-15 °C±2 °C)	IEC 60811-505	-	30 Min.
Cold Impact (-15 °C±2 °C)	IEC 60811-506	-	Pass
Chemical Properties			
Halogen Content	EN 60754-1	%	<0,5 Max.
pH	IEC 60754-2	-	>4.3
Conductivity	IEC 60754-2	μS/mm	<10
Water Absorption	IEC 60811	mg/cm ²	<5.0
LOI	ISO 4589	%	38
Smoke Density	EN-61034	% transmittance	>80
Volume Resistivity 20 °C (Alternating Polarity Method)	ASTM D257 Electrodes	Ω.cm	1.10 ¹⁵
Other Properties			
Oil IRM 902 oil (70 °C, 4 h)	IEC 60811-404		
Δ Strength		%	10
Δ Elongation		%	9

Processing:

Extrusion Temperatures: 115 °C–125 °C–130 °C –135°C –145°C–155 °C (Processing with Die Plate 40 Mesh Filter)

Extrusion Temperatures: 120 °C–125 °C–135 °C –145°C –155°C–165 °C (Processing without Die Plate and Filter)

Packaging:

It is packaged as 1250 kg in octabin.

Storage&Handling:

SX-2E1 should be stored in a manner that avoids direct exposure to sunlight and heat (T<30°C). This compound should be used within 6 months after its production date. After this time it's necessary to dry the material before extrusion.

Product Information:

SX-2E1UV is UV thermoplastic, flame retardant and halogen free compound on polyolefinic basis. It can be used for production of energy, signal and control cables.

Properties of this compound comply with the requirements of,

TS HD 604 S1 type M1; EN 50363-7 type TI6
EN 50363-8 type TM7; EN 50290-2-27
VDE 0207 Part 24 type HM2-HJ2

VDE 0250 Part 215 type HM5,
BS 7655 type LTS1 & LTS3; IEC 60092-360 type SHF1
IEC 60502 ST8

Product Data:

Property	Test Method	Unit	Value
Physical Properties			
Melt Flow Rate (150°C-21,6 kg)	ASTM D 1238	gr/10 min	9
Specific Weight (23°C)	ASTM D-792	gr/cm ³	1,51
Hardness	ISO 868	Shore D	52
Mechanical Properties			
Tensile Strength	ISO 527	Mpa	13
Elongation at Break	ISO 527	%	190
Heat Ageing (100 °C, 168 h)	IEC 60811		
Δ Strength		%	-30
Δ Elongation		%	±40
Tear Strength	ASTM D 1938	N/mm	5
Hot Pressure Test at 80 °C	IEC 60811	%	<50
Cold Flex	ISO 458-2	°C	-20±2
Cold Bend (-15 °C±2 °C)	IEC 60811-504	-	No Cracks
Cold Elongation (-15 °C±2 °C)	IEC 60811-505	-	30 Min.
Cold Impact (-15 °C±2 °C)	IEC 60811-506	-	Pass
Chemical Properties			
Halogen Content	EN 60754-1	%	<0,5 Max.
pH	IEC 60754-2	-	>4.3
Conductivity	IEC 60754-2	μS/mm	<10
Water Absorption	IEC 60811	mg/cm ²	<5.0
LOI	ISO 4589	%	38
Smoke Density	EN-61034	% transmittance	>80
Volume Resistivity 20 °C (Alternating Polarity Method)	ASTM D257 Electrodes	Ω.cm	1.10 ¹⁵
Other Properties			
Oil IRM 902 oil (70 °C, 4 h)	IEC 60811-404		
Δ Strength		%	10
Δ Elongation		%	9

Processing:

Extrusion Temperatures: 115 °C–125 °C–130 °C –135°C –145°C–155 °C (Processing with Die Plate 40 Mesh Filter)

Extrusion Temperatures: 120 °C–125 °C–135 °C –145°C –155°C–165 °C (Processing without Die Plate and Filter)

Packaging:

It is packaged as 1250 kg in octabin.

Storage&Handling:

SX-2E1UV should be stored in a manner that avoids direct exposure to sunlight and heat (T<30°C). This compound should be used within 6 months after its production date. After this time it's necessary to dry the material before extrusion.

Product Information:

SX-2E4 is UV thermoplastic halogen free, flame retardant and low smoke emission compound, for cable insulation and sheathing. It can be used for the production of energy, signal and control cables.

Properties of this compound comply with the requirements of,

TS HD 604 S1 type M1; EN 50363-7 type T16

VDE 0250 Part 215 type HM5

EN 50363-8 type TM7; EN 50290-2-27

BS 7655 type LTS1 & LTS3; IEC 60092-360 type SHF1

VDE 0207 Part 24 type HM2-HJ2

IEC 60502 ST8

Product Data:

Property	Test Method	Unit	Value
Physical Properties			
Melt Flow Rate (150°C-21,6 kg)	ASTM D 1238	gr/10 min	9
Specific Weight (23°C)	ASTM D-792	gr/cm ³	1,49
Hardness	ISO 868	Shore D	49
Mechanical Properties			
Tensile Strength	ISO 527	Mpa	12
Elongation at Break	ISO 527	%	180
Heat Ageing (100 °C, 168 h)	IEC 60811		
Δ Strength		%	-30
Δ Elongation		%	±40
Tear Strength	ASTM D 1938	N/mm	6
Hot Pressure Test at 80 °C	IEC 60811	%	<50
Cold Flex	ISO 458-2	°C	-20±2
Cold Bend (-15 °C±2 °C)	IEC 60811-504	-	No Cracks
Cold Elongation (-15 °C±2 °C)	IEC 60811-505	-	30 Min.
Cold Impact (-15 °C±2 °C)	IEC 60811-506	-	Pass
Chemical Properties			
Halogen Content	EN 60754-1	%	<0,5 Max.
pH	IEC 60754-2	-	>4.3
Conductivity	IEC 60754-2	μS/mm	<10
Water Absorption	IEC 60811	mg/cm ²	<5.0
LOI	ISO 4589	%	38
Smoke Density	EN-61034	% transmittance	>80
Volume Resistivity 20 °C (Alternating Polarity Method)	ASTM D257 Electrodes	Ω.cm	1.10 ¹⁵
Other Properties			
Oil IRM 902 oil (70 °C, 4 h)	IEC 60811-404		
Δ Strength		%	10
Δ Elongation		%	9

Processing:

Extrusion Temperatures: 115 °C–125 °C–130 °C –135°C –145°C–155 °C (Processing with Die Plate 40 Mesh Filter)

Extrusion Temperatures: 120 °C–125 °C–135 °C –145°C –155°C–165 °C (Processing without Die Plate and Filter)

Packaging:

It is packaged as 1250 kg in octabin.

Storage&Handling:

SX-2E4 should be stored in a manner that avoids direct exposure to sunlight and heat (T<30°C). This compound should be used within 6 months after its production date. After this time it's necessary to dry the material before extrusion.

Product Information:

SX-2EC is UV thermoplastic, flame retardant and halogen free compound on polyolefinic basis. It can be used for production of energy, signal and control cables.

Properties of this compound comply with the requirements of,

TS HD 604 S1 type M1; EN 50363-7 type T16

VDE 0207 Part 23 type HJ2; IEC 60502 ST8

EN 50363-8 type TM7, EN 50290-2-27

VDE 0250 Part 215 type HM5

VDE 0207 Part 24 type HM2-HM4; IEC 60092-360 type SHF1

BS 7655 type type LTS1 – LTS2 & LTS3 – LTS4

Product Data:

Property	Test Method	Unit	Value
Physical Properties			
Melt Flow Rate (150°C-21,6 kg)	ASTM D 1238	gr/10 min	9,5
Specific Weight (23°C)	ASTM D-792	gr/cm ³	1,53
Hardness	ISO 868	Shore D	50
Mechanical Properties			
Tensile Strength	ISO 527	Mpa	13
Elongation at Break	ISO 527	%	170
Heat Ageing (100 °C, 168 h)	IEC 60811		
Δ Strength		%	-30
Δ Elongation		%	±40
Tear Strength	ASTM D 1938	N/mm	6
Hot Pressure Test at 80 °C	IEC 60811	%	<50
Cold Flex	ISO 458-2	°C	-20±2
Cold Bend (-15 °C±2 °C)	IEC 60811-504	-	No Cracks
Cold Elongation (-15 °C±2 °C)	IEC 60811-505	-	30 Min.
Cold Impact (-15 °C±2 °C)	IEC 60811-506	-	Pass
Chemical Properties			
Halogen Content	EN 60754-1	%	<0,5 Max.
pH	IEC 60754-2	-	>4.3
Conductivity	IEC 60754-2	μS/mm	<10
Water Absorption	IEC 60811	mg/cm ²	<5.0
LOI	ISO 4589	%	37
Smoke Density	EN-61034	% transmittance	>80
Volume Resistivity 20 °C (Alternating Polarity Method)	ASTM D257 Electrodes	Ω.cm	1.10 ¹⁵
Other Properties			
Oil IRM 902 oil (70 °C, 4 h)	IEC 60811-404		
Δ Strength		%	10
Δ Elongation		%	9

Processing:

Extrusion Temperatures: 115 °C–125 °C–130 °C –135°C –145°C–155 °C (Processing with Die Plate 40 Mesh Filter)

Extrusion Temperatures: 120 °C–125 °C–135 °C –145°C –155°C–165 °C (Processing without Die Plate and Filter)

Packaging:

It is packaged as 1250 kg in octabin.

Storage&Handling:

SX-2EC should be stored in a manner that avoids direct exposure to sunlight and heat (T<30°C). This compound should be used within 6 months after its production date. After this time it's necessary to dry the material before extrusion.

Product Information:

SX-2I is UV thermoplastic, flame retardant and halogen free compound on polyolefinic basis. It can be used for production of energy, signal and control cables.

Properties of this compound comply with the requirements of,

TS HD 604 S1 type M1; EN 50363-7 type TI6

VDE 0250 Part 215 type HM5

EN 50363-8 type TM7; EN 50290-2-27

BS 7655 type LTS1 & LTS3; IEC 60092-360 type SHF1

VDE 0207 Part 24 type HM2-HJ2

IEC 60502 ST8

Product Data:

Property	Test Method	Unit	Value
Physical Properties			
Melt Flow Rate (150°C-21,6 kg)	ASTM D 1238	gr/10 min	7,5
Specific Weight (23°C)	ASTM D-792	gr/cm ³	1,49
Hardness	ISO 868	Shore D	51
Mechanical Properties			
Tensile Strength	ISO 527	Mpa	13
Elongation at Break	ISO 527	%	200
Heat Ageing (100 °C, 168 h)	IEC 60811		
Δ Strength		%	-30
Δ Elongation		%	±40
Tear Strength	ASTM D 1938	N/mm	6
Hot Pressure Test at 80 °C	IEC 60811	%	<50
Cold Flex	ISO 458-2	°C	-20±2
Cold Bend (-15 °C±2 °C)	IEC 60811-504	-	No Cracks
Cold Elongation (-15 °C±2 °C)	IEC 60811-505	-	30 Min.
Cold Impact (-15 °C±2 °C)	IEC 60811-506	-	Pass
Chemical Properties			
Halogen Content	EN 60754-1	%	<0,5 Max.
pH	IEC 60754-2	-	>4.3
Conductivity	IEC 60754-2	μS/mm	<10
Water Absorption	IEC 60811	mg/cm ²	<5.0
LOI	ISO 4589	%	37
Smoke Density	EN-61034	% transmittance	>80
Volume Resistivity 20 °C (Alternating Polarity Method)	ASTM D257 Electrodes	Ω.cm	1.10 ¹⁵
Other Properties			
Oil IRM 902 oil (70 °C, 4 h)	IEC 60811-404		
Δ Strength		%	10
Δ Elongation		%	9

Processing:

Extrusion Temperatures: 115 °C–125 °C–130 °C –135°C –145°C–155 °C (Processing with Die Plate 40 Mesh Filter)

Extrusion Temperatures: 120 °C–125 °C–135 °C –145°C –155°C–165 °C (Processing without Die Plate and Filter)

Packaging:

It is packaged as 1250 kg in octabin.

Storage&Handling:

SX-2I should be stored in a manner that avoids direct exposure to sunlight and heat (T<30°C). This compound should be used within 6 months after its production date. After this time it's necessary to dry the material before extrusion.

Product Information:

SX-2IN is UV thermoplastic, flame retardant and halogen free compound on polyolefinic basis. It can be used for production of energy, signal and control cables.

Properties of this compound comply with the requirements of,

TS HD 604 S1 type M1; EN 50363-7 type T16

EN 50363-8 type TM7; EN 50290-2-27

VDE 0207 Part 24 type HM2-HJ2

VDE 0250 Part 215 type HM5

BS 7655 type LTS1 & LTS3; IEC 60092-360 type SHF1

IEC 60502 ST8

Product Data:

Property	Test Method	Unit	Value
Physical Properties			
Melt Flow Rate (150°C-21,6 kg)	ASTM D 1238	gr/10 min	12
Specific Weight (23°C)	ASTM D-792	gr/cm ³	1,47
Hardness	ISO 868	Shore D	47
Mechanical Properties			
Tensile Strength	ISO 527	Mpa	13
Elongation at Break	ISO 527	%	210
Heat Ageing (100 °C, 168 h)	IEC 60811		
Δ Strength		%	-30
Δ Elongation		%	±40
Tear Strength	ASTM D 1938	N/mm	5
Hot Pressure Test at 80 °C	IEC 60811	%	<50
Cold Flex	ISO 458-2	°C	-20±2
Cold Bend (-15 °C±2 °C)	IEC 60811-504	-	No Cracks
Cold Elongation (-15 °C±2 °C)	IEC 60811-505	-	30 Min.
Cold Impact (-15 °C±2 °C)	IEC 60811-506	-	Pass
Chemical Properties			
Halogen Content	EN 60754-1	%	<0,5 Max.
pH	IEC 60754-2	-	>4.3
Conductivity	IEC 60754-2	μS/mm	<10
Water Absorption	IEC 60811	mg/cm ²	<5.0
LOI	ISO 4589	%	38
Smoke Density	EN-61034	% transmittance	>80
Volume Resistivity 20 °C (Alternating Polarity Method)	ASTM D257 Electrodes	Ω.cm	1.10 ¹⁵
Other Properties			
Oil IRM 902 oil (70 °C, 4 h)	IEC 60811-404		
Δ Strength		%	10
Δ Elongation		%	9

Processing:

Extrusion Temperatures: 115 °C–125 °C–130 °C –135°C –145°C–155 °C (Processing with Die Plate 40 Mesh Filter)

Extrusion Temperatures: 120 °C–125 °C–135 °C –145°C –155°C–165 °C (Processing without Die Plate and Filter)

Packaging:

It is packaged as 1250 kg in octabin.

Storage&Handling:

SX-2IN should be stored in a manner that avoids direct exposure to sunlight and heat (T<30°C). This compound should be used within 6 months after its production date. After this time it's necessary to dry the material before extrusion.

Product Information:

SX-2M is UV thermoplastic, flame retardant and halogen free compound on polyolefinic basis. It can be used for production of energy, signal and control cables.

Properties of this compound comply with the requirements of,

TS HD 604 S1 type M1; EN 50363-7 type T16

VDE 0250 Part 215 type HM5

EN 50363-8 type TM7; EN 50290-2-27

BS 7655 type LTS1 & LTS3; IEC 60092-360 type SHF1

VDE 0207 Part 24 type HM2-HJ2

IEC 60502 ST8

Product Data:

Property	Test Method	Unit	Value
Physical Properties			
Melt Flow Rate (150°C-21,6 kg)	ASTM D 1238	gr/10 min	10
Specific Weight (23°C)	ASTM D-792	gr/cm ³	1,53
Hardness	ISO 868	Shore D	51
Mechanical Properties			
Tensile Strength	ISO 527	Mpa	12,5
Elongation at Break	ISO 527	%	180
Heat Ageing (100 °C, 168 h)	DIN VDE 0207		
Δ Strength		%	-30
Δ Elongation		%	±40
Tear Strength	ASTM D 1938	N/mm	5
Hot Pressure Test at 80 °C	IEC 60811	%	<50
Cold Flex	ISO 458-2	°C	-20±2
Cold Bend (-15 °C±2 °C)	IEC 60811-504	-	No Cracks
Cold Elongation (-15 °C±2 °C)	IEC 60811-505	-	30 Min.
Cold Impact (-15 °C±2 °C)	IEC 60811-506	-	Pass
Chemical Properties			
Halogen Content	EN 60754-1	%	<0,5 Max.
pH	IEC 60754-2	-	>4.3
Conductivity	IEC 60754-2	μS/mm	<10
Water Absorption	IEC 60811	mg/cm ²	<5.0
LOI	ISO 4589	%	39
Smoke Density	EN-61034	% transmittance	>80
Volume Resistivity 20 °C (Alternating Polarity Method)	ASTM D257 Electrodes	Ω.cm	1.10 ¹⁵
Other Properties			
Oil IRM 902 oil (70 °C, 4 h)	IEC 60811-404		
Δ Strength		%	10
Δ Elongation		%	9

Processing:

Extrusion Temperatures: 115 °C–125 °C–130 °C –135°C –145°C–155 °C (Processing with Die Plate 40 Mesh Filter)

Extrusion Temperatures: 120 °C–125 °C–135 °C –145°C –155°C–165 °C (Processing without Die Plate and Filter)

Packaging:

It is packaged as 1250 kg in octabin.

Storage&Handling:

SX-2M should be stored in a manner that avoids direct exposure to sunlight and heat (T<30°C). This compound should be used within 6 months after its production date. After this time it's necessary to dry the material before extrusion.

Product Information:

SX-2M1 is UV thermoplastic, flame retardant and halogen free compound on polyolefinic basis. It can be used for production of energy, signal and control cables.

Properties of this compound comply with the requirements of,

TS HD 604 S1 type M1; EN 50363-7 type TI6

EN 50363-8 type TM7; EN 50290-2-27

VDE 0207 Part 24 type HM2-HJ2

VDE 0250 Part 215 type HM5

BS 7655 type LTS1 & LTS3; IEC 60092-360 type SHF1

IEC 60502 ST8

Product Data:

Property	Test Method	Unit	Value
Physical Properties			
Melt Flow Rate (150°C-21,6 kg)	ASTM D 1238	gr/10 min	8,5
Specific Weight (23°C)	ASTM D-792	gr/cm ³	1,50
Hardness	ISO 868	Shore D	50
Mechanical Properties			
Tensile Strength	ISO 527	Mpa	12,5
Elongation at Break	ISO 527	%	185
Heat Ageing (100 °C, 168 h)	IEC 60811		
Δ Strength		%	-30
Δ Elongation		%	±40
Tear Strength	ASTM D 1938	N/mm	5
Hot Pressure Test at 80 °C	IEC 60811	%	<50
Cold Flex	ISO 458-2	°C	-20±2
Cold Bend (-15 °C±2 °C)	IEC 60811-504	-	No Cracks
Cold Elongation (-15 °C±2 °C)	IEC 60811-505	-	30 Min.
Cold Impact (-15 °C±2 °C)	IEC 60811-506	-	Pass
Chemical Properties			
Halogen Content	EN 60754-1	%	<0,5 Max.
pH	IEC 60754-2	-	>4.3
Conductivity	IEC 60754-2	μS/mm	<10
Water Absorption	IEC 60811	mg/cm ²	<5.0
LOI	ISO 4589	%	37
Smoke Density	EN-61034	% transmittance	>80
Volume Resistivity 20 °C (Alternating Polarity Method)	ASTM D257 Electrodes	Ω.cm	1.10 ¹⁵
Other Properties			
Oil IRM 902 oil (70 °C, 4 h)	IEC 60811-404		
Δ Strength		%	10
Δ Elongation		%	9

Processing:

Extrusion Temperatures: 115 °C–125 °C–130 °C –135°C –145°C–155 °C (Processing with Die Plate 40 Mesh Filter)

Extrusion Temperatures: 120 °C–125 °C–135 °C –145°C –155°C–165 °C (Processing without Die Plate and Filter)

Packaging:

It is packaged as 1250 kg in octabin.

Storage&Handling:

SX-2M1 should be stored in a manner that avoids direct exposure to sunlight and heat (T<30°C). This compound should

Product Information:

SX-2N is UV thermoplastic, flame retardant and halogen free compound on polyolefinic basis. It can be used for production of energy, signal and control cables.

Properties of this compound comply with the requirements of

TS HD 604 S1 type M1; EN 50363-7 type T16-T17
 EN 50363-8 type TM7; EN 50290-2-27
 VDE 0207 Part 24 type HM2-HM4; IEC 60502 ST8

VDE 0207 Part 23 type HJ2
 VDE 0250 Part 215 type HM5
 BS 7655 type LTS1 & LTS3; IEC 60092-360 type SHF1

Product Data:

Property	Test Method	Unit	Value
Physical Properties			
Melt Flow Rate (150°C-21,6 kg)	ASTM D 1238	gr/10 min	10
Specific Weight (23°C)	ASTM D-792	gr/cm ³	1,50
Hardness	ISO 868	Shore D	48
Mechanical Properties			
Tensile Strength	ISO 527	Mpa	13
Elongation at Break	ISO 527	%	210
Heat Ageing (100 °C, 168 h)	IEC 60811		
Δ Strength		%	-30
Δ Elongation		%	±40
Tear Strength	ASTM D 1938	N/mm	5
Hot Pressure Test at 80 °C	IEC 60811	%	<50
Cold Flex	ISO 458-2	°C	-20±2
Cold Bend (-15 °C±2 °C)	IEC 60811-504	-	No Cracks
Cold Elongation (-15 °C±2 °C)	IEC 60811-505	-	30 Min.
Cold Impact (-15 °C±2 °C)	IEC 60811-506	-	Pass
Chemical Properties			
Halogen Content	EN 60754-1	%	<0,5 Max.
pH	IEC 60754-2	-	>4.3
Conductivity	IEC 60754-2	μS/mm	<10
Water Absorption	IEC 60811	mg/cm ²	<5.0
LOI	ISO 4589	%	42
Smoke Density	EN-61034	% transmittance	>80
Volume Resistivity 20 °C (Alternating Polarity Method)	ASTM D257 Electrodes	Ω.cm	1.10 ¹⁵
Other Properties			
Oil IRM 902 oil (70 °C, 4 h)	IEC 60811-404		
Δ Strength		%	10
Δ Elongation		%	9

Processing:

Extrusion Temperatures: 115 °C–125 °C–130 °C –135°C –145°C–155 °C (Processing with Die Plate 40 Mesh Filter)

Extrusion Temperatures: 120 °C–125 °C–135 °C –145°C –155°C–165 °C (Processing without Die Plate and Filter)

Packaging:

It is packaged as 1250 kg in octabin.

Storage&Handling:

SX-2N should be stored in a manner that avoids direct exposure to sunlight and heat (T<30°C). This compound should be used within 6 months after its production date. After this time it's necessary to dry the material before extrusion.

Product Information:

SX-2P is UV thermoplastic, flame retardant and halogen free compound on polyolefinic basis. It can be used for production of energy, signal and control cables.

Properties of this compound comply with the requirements of,

TS EN 604 S1 type M1; EN 50363-7 type T16

EN 50363-8 type TM7; EN 50290-2-27

VDE 0207 Part 24 type HM2-HJ2

VDE 0250 Part 215 type HM5

BS 7655 type LTS1 & LTS3; IEC 60092-360 type SHF1

IEC 60502 ST8

Product Data:

Property	Test Method	Unit	Value
Physical Properties			
Melt Flow Rate (150°C-21,6 kg)	ASTM D 1238	gr/10 min	11,5
Specific Weight (23°C)	ASTM D-792	gr/cm ³	1,44
Hardness	ISO 868	Shore D	51
Mechanical Properties			
Tensile Strength	ISO 527	Mpa	13
Elongation at Break	ISO 527	%	210
Heat Ageing (100 °C, 168 h)	IEC 60811		
Δ Strength		%	-30
Δ Elongation		%	±40
Tear Strength	ASTM D 1938	N/mm	7
Hot Pressure Test at 80 °C	IEC 60811	%	<50
Cold Flex	ISO 458-2	°C	-20±2
Cold Bend (-15 °C±2 °C)	IEC 60811-504	-	No Cracks
Cold Elongation (-15 °C±2 °C)	IEC 60811-505	-	30 Min.
Cold Impact (-15 °C±2 °C)	IEC 60811-506	-	Pass
Chemical Properties			
Halogen Content	EN 60754-1	%	<0,5 Max.
pH	IEC 60754-2	-	>4.3
Conductivity	IEC 60754-2	μS/mm	<10
Water Absorption	IEC 60811	mg/cm ²	<5.0
LOI	ISO 4589	%	39
Smoke Density	EN-61034	% transmittance	>80
Volume Resistivity 20 °C (Alternating Polarity Method)	ASTM D257 Electrodes	Ω.cm	1.10 ¹⁵
Other Properties			
Oil IRM 902 oil (70 °C, 4 h)	IEC 60811-404		
Δ Strength		%	10
Δ Elongation		%	9

Processing:

Extrusion Temperatures: 115 °C–125 °C–130 °C –135°C –145°C–155 °C (Processing with Die Plate 40 Mesh Filter)

Extrusion Temperatures: 120 °C–125 °C–135 °C –145°C –155°C–165 °C (Processing without Die Plate and Filter)

Packaging:

It is packaged as 1250 kg in octabin.

Storage&Handling:

SX-2P should be stored in a manner that avoids direct exposure to sunlight and heat (T<30°C). This compound should be used within 6 months after its production date. After this time it's necessary to dry the material before extrusion.

Product Information:

SX-2PRS is UV thermoplastic, flame retardant and halogen free compound on polyolefinic basis. It can be used for production of energy, signal and control cables.

Properties of this compound comply with the requirements of,

TS HD 604 S1 type M1; EN 50363-7 type T16
 EN 50363-8 type TM7; EN 50290-2-27
 VDE 0207 Part 24 type HM2-HJ2

VDE 0250 Part 215 type HM5
 BS 7655 type LTS1 & LTS3; IEC 60092-360 type SHF1
 IEC 60502 ST8

Product Data:

Property	Test Method	Unit	Value
Physical Properties			
Melt Flow Rate (150°C-21,6 kg)	GOST 11645	gr/10 min	8
Specific Weight (23°C)	GOST 15139	gr/cm ³	1,48
Hardness	GOST 24621	Shore D	45
Mechanical Properties			
Tensile Strength	ISO 527	Mpa	12
Elongation at Break	ISO 527	%	210
Thermal Properties			
Heat Ageing (100 °C, 168 h)	GOST IEC 60811-1-2		
Δ Strength	GOST IEC 60811-1-1	%	-30
Δ Elongation	GOST IEC 60811-1-1	%	±40
Tear Strength	ASTM D 1938	N/mm	6
Hot Pressure Test at 80 °C	IEC 60811	%	<50
Cold Flex	ISO 458-2	°C	-20±2
Cold Bend (-15 °C±2 °C)	IEC 60811-504	-	No Cracks
Cold Elongation (-15 °C±2 °C)	IEC 60811-505	-	30 Min.
Cold Impact (-15 °C±2 °C)	IEC 60811-506	-	Pass
Chemical Properties			
Halogen Content	GOST IEC 60754-1	%	<0,5 Max.
pH	GOST IEC 60754-2	-	>4.3
Conductivity	GOST IEC 60754-2	μS/mm	<10
Water Absorption	IEC 60811	mg/cm ²	<5.0
LOI	GOST 2179/ISO 11359-2	%	38
Smoke Density	EN 61034-1	% transmittance	>80
Volume Resistivity 20 °C (Alternating Polarity Method)	GOST 6433.2	Ω.cm	1.10 ¹⁵
Other Properties			
Oil IRM 902 oil (70 °C, 4 h)	IEC 60811-404		
Δ Strength		%	10
Δ Elongation		%	9

Processing:

Extrusion Temperatures: 115 °C–125 °C–130 °C –135°C –145°C–155 °C (Processing with Die Plate 40 Mesh Filter)

Extrusion Temperatures: 120 °C–125 °C–135 °C –145°C –155°C–165 °C (Processing without Die Plate and Filter)

Packaging:

It is packaged as 1250 kg in octabin.

Storage&Handling:

SX-2PRS should be stored in a manner that avoids direct exposure to sunlight and heat (T<30°C). This compound should be used within 6 months after its production date. After this time it's necessary to dry the material before extrusion.

HM4 COMPOUNDS



KABKOM

Product Information:

SX-4E is thermoplastic halogen free, flame retardant and low smoke emission compound with UV resistance for cable insulation and sheathing. It can be used for the production of energy, signal and control cables.

The properties of this compound comply with the requirements of,

TS HD 604 S1 type M1; EN 50363-7 type T17

EN 50290-2-27; IEC 60502 ST8

VDE 0207 Part 24 type HM2-HM4

UNE 21123-4:2010 - ANNEX A-Table1 type DMZ-E

BS 7655 type LTS1 – LTS2 & LTS3 – LTS4

IEC 60092-360 type SHF1

Product Data:

Property	Test Method	Unit	Value
Physical Properties			
Melt Flow Rate (150°C-21,6 kg)	ASTM D 1238	gr/10 min	4
Specific Weight (23°C)	ASTM D-792	gr/cm ³	1,51
Hardness	ISO 868	Shore D	51
Mechanical Properties			
Tensile Strength	ISO 527	Mpa	13
Elongation at Break	ISO 527	%	210
Heat Ageing (110 °C, 168 h)	IEC 60811		
Δ Strength		%	-30
Δ Elongation		%	±40
Tear Strength	ASTM D 1938	N/mm	8
Hot Pressure Test at 90 °C	IEC 60811	%	<50
Cold Flex	ISO 458-2	°C	-20±2
Cold Bend (-15 °C±2 °C)	IEC 60811-504	-	No Cracks
Cold Elongation (-15 °C±2 °C)	IEC 60811-505	-	30 Min.
Cold Impact (-15 °C±2 °C)	IEC 60811-506	-	Pass
Chemical Properties			
Halogen Content	EN 60754-1	%	<0,5 Max.
pH	IEC 60754-2	-	>4.3
Conductivity	IEC 60754-2	μS/mm	<10
Water Absorption	IEC 60811	mg/cm ²	<5.0
LOI	ISO 4589	%	40
Smoke Density	EN-61034	% transmittance	>80
Volume Resistivity 20 °C (Alternating Polarity Method)	ASTM D257 Electrodes	Ω.cm	1.10 ¹⁵
Other Properties			
Oil IRM 902 oil (70 °C, 4 h)	IEC 60811-404		
Δ Strength		%	10
Δ Elongation		%	9

Processing:

Extrusion Temperatures: 115 °C–125 °C–130 °C –135°C –145°C–155 °C (Processing with Die Plate 40 Mesh Filter)

Extrusion Temperatures: 120 °C–125 °C–135 °C –145°C –155°C–165 °C (Processing without Die Plate and Filter)

Packaging:

It is packaged as 1250 kg in octabin.

Storage&Handling:

SX-4E should be stored in a manner that avoids direct exposure to sunlight and heat (T<30°C). This compound should be used within 6 months after its production date. After this time it's necessary to dry the material before extrusion.

Product Information:

SX-4E(HM4) is UV thermoplastic halogen free, flame retardant and low smoke emission compound, for cable insulation and sheathing. It can be used for the production of energy, signal and control cables.

The properties of this compound comply with the requirements of ,

TS HD 604 S1 type M1; EN 50363-7 type T17

EN 50290-2-27

IEC 60502 ST8; VDE 0207 Part 24 type HM2-HM4

UNE 21123-4:2010 – ANNEX A-Table1 type DMZ-E

BS 7655 type LTS1 – LTS2 & LTS3 – LTS4

IEC 60092-360 type SHF1

Product Data:

Property	Test Method	Unit	Value
Physical Properties			
Melt Flow Rate (150°C-21,6 kg)	ASTM D 1238	gr/10 min	7
Specific Weight (23°C)	ASTM D-792	gr/cm ³	1,51
Hardness	ISO 868	Shore D	54
Mechanical Properties			
Tensile Strength	ISO 527	Mpa	12
Elongation at Break	ISO 527	%	195
Heat Ageing (110 °C, 168 h)	IEC 60811		
Δ Strength		%	-30
Δ Elongation		%	±40
Tear Strength	ASTM D 1938	N/mm	6,5
Hot Pressure Test at 90 °C	IEC 60811	%	<50
Cold Flex	ISO 458-2	°C	-20±2
Cold Bend (-15 °C±2 °C)	IEC 60811-504	-	No Cracks
Cold Elongation (-15 °C±2 °C)	IEC 60811-505	-	30 Min.
Cold Impact (-15 °C±2 °C)	IEC 60811-506	-	Pass
Chemical Properties			
Halogen Content	EN 60754-1	%	<0,5 Max.
pH	IEC 60754-2	-	>4.3
Conductivity	IEC 60754-2	μS/mm	<10
Water Absorption	IEC 60811	mg/cm ²	<5.0
LOI	ISO 4589	%	41
Smoke Density	EN-61034	% transmittance	>80
Volume Resistivity 20 °C (Alternating Polarity Method)	ASTM D257 Electrodes	Ω.cm	1.10 ¹⁵
Other Properties			
Oil IRM 902 oil (70 °C, 4 h)	IEC 60811-404		
Δ Strength		%	10
Δ Elongation		%	9

Processing:

Extrusion Temperatures: 115 °C–125 °C–130 °C –135°C –145°C–155 °C (Processing with Die Plate 40 Mesh Filter)

Extrusion Temperatures: 120 °C–125 °C–135 °C –145°C –155°C–165 °C (Processing without Die Plate and Filter)

Packaging:

It is packaged as 1250 kg in octabin.

Storage&Handling:

SX-4E(HM4) should be stored in a manner that avoids direct exposure to sunlight and heat (T<30°C). This compound should be used within 6 months after its production date. After this time it's necessary to dry the material before extrusion.

Product Information:

SX-4EC is UV thermoplastic, flame retardant and halogen free compound on polyolefinic basis. It can be used for production of energy, signal and control cables.

Properties of this compound comply with the requirements of,

TS HD 604 S1 type M1; EN 50363-7 type T16

EN 50363-8 type TM7; EN 50290-2-27;

VDE 0207 Part 24 type HM2-HM4

VDE 0207 Part 23 type HJ2

VDE 0250 Part 215 type HM5; IEC 60092-360 type SHF1

IEC 60502 ST8, EN 50363-7 type T17

BS 7655 type LTS1 – LTS2 & LTS3 – LTS4; EN 50290-2-27

UNE 21123-4:2010 – ANNEX A-Table1 type DMZ-E.

Product Data:

Property	Test Method	Unit	Value
Physical Properties			
Melt Flow Rate (150°C-21,6 kg)	ASTM D 1238	gr/10 min	9
Specific Weight (23°C)	ASTM D-792	gr/cm ³	1,52
Hardness	ISO 868	Shore D	50
Mechanical Properties			
Tensile Strength	ISO 527	Mpa	12,5
Elongation at Break	ISO 527	%	175
Heat Ageing (100 °C, 168 h)	IEC 60811		
Δ Strength		%	-30
Δ Elongation		%	±40
Tear Strength	ASTM D 1938	N/mm	6
Hot Pressure Test at 80 °C	IEC 60811	%	<50
Cold Flex	ISO 458-2	°C	-20±2
Cold Bend (-15 °C±2 °C)	IEC 60811-504	-	No Cracks
Cold Elongation (-15 °C±2 °C)	IEC 60811-505	-	30 Min.
Cold Impact (-15 °C±2 °C)	IEC 60811-506	-	Pass
Chemical Properties			
Halogen Content	EN 60754-1	%	<0,5 Max.
pH	IEC 60754-2	-	>4.3
Conductivity	IEC 60754-2	μS/mm	<10
Water Absorption	IEC 60811	mg/cm ²	<5.0
LOI	ISO 4589	%	39
Smoke Density	EN-61034	% transmittance	>80
Volume Resistivity 20 °C (Alternating Polarity Method)	ASTM D257 Electrodes	Ω.cm	1.10 ¹⁵
Other Properties			
Oil IRM 902 oil (70 °C, 4 h)	IEC 60811-404		
Δ Strength		%	10
Δ Elongation		%	9

Processing:

Extrusion Temperatures: 115 °C–125 °C–130 °C –135°C –145°C–155 °C (Processing with Die Plate 40 Mesh Filter)

Extrusion Temperatures: 120 °C–125 °C–135 °C –145°C –155°C–165 °C (Processing without Die Plate and Filter)

Packaging:

It is packaged as 1250 kg in octabin.

Storage&Handling:

SX-4EC should be stored in a manner that avoids direct exposure to sunlight and heat (T<30°C). This compound should be used within 6 months after its production date. After this time it's necessary to dry the material before extrusion.

Product Information:

SX-4MRS is UV thermoplastic halogen free, flame retardant and low smoke emission compound, for cable insulation and sheathing. It can be used for the production of energy, signal and control cables.

The properties of this compound comply with the requirements of,

TS HD 604 S1 type M1; EN 50363-7 type T17

EN 50290-2-27

IEC 60502 ST8; VDE 0207 Part 24 type HM2-HM4

UNE 21123-4:2010 – ANNEX A-Table1 type DMZ-E

BS 7655 type LTS1 – LTS2 & LTS3 – LTS4

IEC 60092-360 type SHF1

Product Data:

Property	Test Method	Unit	Value
Physical Properties			
Melt Flow Rate (150°C-21,6 kg)	ASTM D 1238	gr/10 min	4,5
Specific Weight (23°C)	ASTM D-792	gr/cm ³	1,53
Hardness	ISO 868	Shore D	56
Mechanical Properties			
Tensile Strength	ISO 527	Mpa	13
Elongation at Break	ISO 527	%	195
Heat Ageing (110 °C, 168 h)	IEC 60811		
Δ Strength		%	-30
Δ Elongation		%	±40
Tear Strength	ASTM D 1938	N/mm	7
Hot Pressure Test at 90 °C	IEC 60811	%	<50
Cold Flex	ISO 458-2	°C	-20±2
Cold Bend (-15 °C±2 °C)	IEC 60811-504	-	No Cracks
Cold Elongation (-15 °C±2 °C)	IEC 60811-505	-	30 Min.
Cold Impact (-15 °C±2 °C)	IEC 60811-506	-	Pass
Chemical Properties			
Halogen Content	EN 60754-1	%	<0,5 Max.
pH	IEC 60754-2	-	>4.3
Conductivity	IEC 60754-2	μS/mm	<10
Water Absorption	IEC 60811	mg/cm ²	<5.0
LOI	ISO 4589	%	36
Smoke Density	EN-61034	% transmittance	>80
Volume Resistivity 20 °C (Alternating Polarity Method)	ASTM D257 Electrodes	Ω.cm	1.10 ¹⁵
Other Properties			
Oil IRM 902 oil (70 °C, 4 h)	IEC 60811-404		
Δ Strength		%	10
Δ Elongation		%	9

Processing:

Extrusion Temperatures: 115 °C–125 °C–130 °C –135°C –145°C–155 °C (Processing with Die Plate 40 Mesh Filter)

Extrusion Temperatures: 120 °C–125 °C–135 °C –145°C –155°C–165 °C (Processing without Die Plate and Filter)

Packaging:

It is packaged as 1250 kg in octabin.

Storage&Handling:

SX-4MRS should be stored in a manner that avoids direct exposure to sunlight and heat (T<30°C). This compound should be used within 6 months after its production date. After this time it's necessary to dry the material before extrusion.

Product Information:

SX-4N is UV thermoplastic halogen free, flame retardant and low smoke emission compound, for cable insulation and sheathing. It can be used for the production of energy, signal and control cables.

The properties of this compound comply with the requirements of,

TS HD 604 S1 type M1; EN 50363-7 type T17

EN 50290-2-27

IEC 60502 ST8; VDE 0207 Part 24 type HM2-HM4

UNE21123-4:2010 – ANNEX A-Table1 type DMZ-E

BS 7655 type LTS1 – LTS2 & LTS3 – LTS4

IEC 60092-360 type SHF1

Product Data:

Property	Test Method	Unit	Value
Physical Properties			
Melt Flow Rate (150°C-21,6 kg)	ASTM D 1238	gr/10 min	9,5
Specific Weight (23°C)	ASTM D-792	gr/cm ³	1,51
Hardness	ISO 868	Shore D	50
Mechanical Properties			
Tensile Strength	ISO 527	Mpa	12,5
Elongation at Break	ISO 527	%	190
Heat Ageing (110 °C, 168 h)	IEC 60811		
Δ Strength		%	-30
Δ Elongation		%	±40
Tear Strength	ASTM D 1938	N/mm	5
Hot Pressure Test at 90 °C	IEC 60811	%	<50
Cold Flex	ISO 458-2	°C	-20±2
Cold Bend (-15 °C±2 °C)	IEC 60811-504	-	No Cracks
Cold Elongation (-15 °C±2 °C)	IEC 60811-505	-	30 Min.
Cold Impact (-15 °C±2 °C)	IEC 60811-506	-	Pass
Chemical Properties			
Halogen Content	EN 60754-1	%	<0,5 Max.
pH	IEC 60754-2	-	>4.3
Conductivity	IEC 60754-2	μS/mm	<10
Water Absorption	IEC 60811	mg/cm ²	<5.0
LOI	ISO 4589	%	38
Smoke Density	EN-61034	% transmittance	>80
Volume Resistivity 20 °C (Alternating Polarity Method)	ASTM D257 Electrodes	Ω.cm	1.10 ¹⁵
Other Properties			
Oil IRM 902 oil (70 °C, 4 h)	IEC 60811-404		
Δ Strength		%	10
Δ Elongation		%	9

Processing:

Extrusion Temperatures: 115 °C–125 °C–130 °C –135°C–145°C–155 °C (Processing with Die Plate 40 Mesh Filter)

Extrusion Temperatures: 120 °C–125 °C–135 °C –145°C –155°C–165 °C (Processing without Die Plate and Filter)

Packaging:

It is packaged as 1250 kg in bigbag or octabin.

Storage&Handling:

SX-4N should be stored in a manner that avoids direct exposure to sunlight and heat (T<30°C). This compound should be used within 6 months after its production date. After this time it's necessary to dry the material before extrusion.

Product Information:

SX-4V is UV thermoplastic halogen free, flame retardant and low smoke emission compound, for cable insulation and sheathing. It can be used for the production of energy, signal and control cables.

The properties of this compound comply with the requirements of,

TS HD 604 S1 type M1, EN 50363-7 type T17

EN 50290-2-27

IEC 60502 ST8; VDE 0207 Part 24 type HM2-HM4

UNE 21123-4:2010 - ANNEX A-Table1 type DMZ-E

BS 7655 type LTS1 – LTS2 & LTS3 – LTS4

IEC 60092-360 type SHF1

Product Data:

Property	Test Method	Unit	Value
Physical Properties			
Melt Flow Rate (150°C-21,6 kg)	ASTM D 1238	gr/10 min	4
Specific Weight (23°C)	ASTM D-792	gr/cm ³	1,50
Hardness	ISO 868	Shore D	54
Mechanical Properties			
Tensile Strength	ISO 527	Mpa	14
Elongation at Break	ISO 527	%	180
Heat Ageing (110 °C, 168 h)	IEC 60811		
Δ Strength		%	-30
Δ Elongation		%	±40
Tear Strength	ASTM D 1938	N/mm	6
Hot Pressure Test at 90 °C	IEC 60811	%	<50
Cold Flex	ISO 458-2	°C	-20±2
Cold Bend (-15 °C±2 °C)	IEC 60811-504	-	No Cracks
Cold Elongation (-15 °C±2 °C)	IEC 60811-505	-	30 Min.
Cold Impact (-15 °C±2 °C)	IEC 60811-506	-	Pass
Chemical Properties			
Halogen Content	EN 60754-1	%	<0,5 Max.
pH	IEC 60754-2	-	>4.3
Conductivity	IEC 60754-2	μS/mm	<10
Water Absorption	IEC 60811	mg/cm ²	<5.0
LOI	ISO 4589	%	40
Smoke Density	EN-61034	% transmittance	>80
Volume Resistivity 20 °C (Alternating Polarity Method)	ASTM D257 Electrodes	Ω.cm	1.10 ¹⁵
Other Properties			
Oil IRM 902 oil (70 °C, 4 h)	IEC 60811-404		
Δ Strength		%	10
Δ Elongation		%	9

Processing:

Extrusion Temperatures: 115 °C–125 °C–130 °C –135°C –145°C–155 °C (Processing with Die Plate 40 Mesh Filter)

Extrusion Temperatures: 120 °C–125 °C–135 °C –145°C –155°C–165 °C (Processing without Die Plate and Filter)

Packaging:

It is packaged as 1250 kg in octabin.

Storage&Handling:

SX-4V should be stored in a manner that avoids direct exposure to sunlight and heat (T<30°C). This compound should

Product Information:

SX-4VRS is UV thermoplastic halogen free, flame retardant and low smoke emission compound, for cable insulation and sheathing. It can be used for the production of energy, signal and control cables. The properties of this compound comply with the requirements of ,

TS HD 604 S1 type M1; EN 50363-7 type T17

EN 50290-2-27

IEC 60502 ST8; VDE 0207 Part 24 type HM2-HM4

UNE21123-4:2010 – ANNEX A-Table1 type DMZ-E

BS 7655 type LTS1 – LTS2 & LTS3 – LTS4

IEC 60092-360 type SHF1

Product Data:

Property	Test Method	Unit	Value
Physical Properties			
Color	ASTM E 1164	-	Natural
Melt Flow Rate (150°C-21,6 kg)	GOST 11645	gr/10 min	7±1
Specific Weight (23°C)	GOST 15139	gr/cm ³	1,51±0,01
Hardness	GOST 24621	Shore D	50
Mechanical Properties			
Tensile Strength at Break	ISO 527	Mpa	13
Elongation at Break	ISO 527	%	190
Thermal Properties			
Heat Ageing (100 °C, 168 h)	GOST IEC 60811-1-2		
• Tensile strenght at break	GOST IEC 60811-1-1	%	+7
• Tensile elongation at break	GOST IEC 60811-1-1	%	-10
Heat Ageing (110 °C, 168 h)	GOST IEC 60811-1-2		
• Tensile strenght at break	GOST IEC 60811-1-1	%	+10
• Tensile elongation at break	GOST IEC 60811-1-1	%	-15
Tear Strength	ASTM D 1938	N/mm	6
Hot Pressure Test at 80 °C	IEC 60811	%	<50
Cold Flex	ISO 458-2	°C	-18±2
Cold Bend (-15 °C±2 °C)	IEC 60811-504	-	No Cracks
Cold Elongation (-15 °C±2 °C)	IEC 60811-505	-	30 Min.
Cold Impact (-15 °C±2 °C)	IEC 60811-506	-	Pass
Chemical Properties			
Halogen Content	GOST IEC 60754-1	%	0
pH	GOST IEC 60754-2	-	>4.3
Conductivity	GOST IEC 60754-2	µS/mm	<10
Water Absorption	GOST IEC 60811	mg/cm ²	<5.0
LOI	GOST 21793/ISO 11359-2	%	40
Smoke Density	IEC 61034-1	% trasmittance	>80
Volume Resistivity 20 °C (Alternating Polarity Method)	GOST 6433.2	Ω.cm	1.10 ¹⁵
Other Properties			
Oil IRM 902 oil (70 °C, 4 h)	IEC 60811-404		
• Tensile strenght at break		%	10
• Tensile elongation at break		%	9
UV Resistance (720 h)	UL 1581		
• Tensile strenght at break	GOST IEC 60811-1-1	%	≥80
• Tensile elongation at break	GOST IEC 60811-1-1	%	≥80

Processing:

Extrusion Temperatures: 115 °C–125 °C–130 °C –135°C –145°C–155 °C (Processing with Die Plate 40 Mesh Filter)

Extrusion Temperatures: 120 °C–125 °C–135 °C –145°C –155°C–165 °C (Processing without Die Plate and Filter)

Packaging: It is packaged as 1250 kg in octabin.

Storage&Handling:

SX-4VRS should be stored in a manner that avoids direct exposure to sunlight and heat (T<30°C). This compound should be used within 6 months after its production date. After this time it's necessary to dry the material before extrusion.

Product Information:

SX-4VUV is thermoplastic halogen free, flame retardant and low smoke emission compound with UV resistance for cable insulation and sheathing. It can be used for the production of energy, signal and control cables.

The properties of this compound comply with the requirements of ,

TS HD 604 S1 type M1; EN 50363-7 type T17

EN 50290-2-27

IEC 60502 ST8; VDE 0207 Part 24 type HM2-HM4

UNE 21123-4:2010 - ANNEX A-Table1 type DMZ-E

BS 7655 type LTS1 – LTS2 & LTS3 – LTS4

IEC 60092-360 type SHF1

Product Data:

Property	Test Method	Unit	Value
Physical Properties			
Melt Flow Rate (150°C-21,6 kg)	ASTM D 1238	gr/10 min	4
Specific Weight (23°C)	ASTM D-792	gr/cm ³	1,50
Hardness	ISO 868	Shore D	54
Mechanical Properties			
Tensile Strength	ISO 527	Mpa	12
Elongation at Break	ISO 527	%	185
Heat Ageing (110 °C, 168 h)	IEC 60811		
Δ Strength		%	-30
Δ Elongation		%	±40
Tear Strength	ASTM D 1938	N/mm	6
Hot Pressure Test at 90 °C	IEC 60811	%	<50
Cold Flex	ISO 458-2	°C	-20±2
Cold Bend (-15 °C±2 °C)	IEC 60811-504	-	No Cracks
Cold Elongation (-15 °C±2 °C)	IEC 60811-505	-	30 Min.
Cold Impact (-15 °C±2 °C)	IEC 60811-506	-	Pass
Chemical Properties			
Halogen Content	EN 60754-1	%	<0,5 Max.
pH	IEC 60754-2	-	>4.3
Conductivity	IEC 60754-2	μS/mm	<10
Water Absorption	IEC 60811	mg/cm ²	<5.0
LOI	ISO 4589	%	41
Smoke Density	EN-61034	% transmittance	>80
Volume Resistivity 20 °C (Alternating Polarity Method)	ASTM D257 Electrodes	Ω.cm	1.10 ¹⁵
Other Properties			
Oil IRM 902 oil (70 °C, 4 h)	IEC 60811-404		
Δ Strength		%	10
Δ Elongation		%	9

Processing:

Extrusion Temperatures: 115 °C–125 °C–130 °C –135°C –145°C–155 °C (Processing with Die Plate 40 Mesh Filter)

Extrusion Temperatures: 120 °C–125 °C–135 °C –145°C –155°C–165 °C (Processing without Die Plate and Filter)

Packaging:

It is packaged as 1250 kg in octabin.

Storage&Handling:

SX-4VUV should be stored in a manner that avoids direct exposure to sunlight and heat (T<30°C). This compound should be used within 6 months after its production date. After this time it's necessary to dry the material before extrusion.

Product Information:

SX-4VV is UV thermoplastic halogen free, flame retardant and low smoke emission compound, for cable insulation and sheathing. It can be used for the production of energy, signal and control cables.

The properties of this compound comply with the requirements of,

TS HD 604 S1 type M1, EN 50363-7 type T17

EN 50290-2-27

IEC 60502 ST8; VDE 0207 Part 24 type HM2-HM4

UNE 21123-4:2010 – ANNEX A-Table1 type DMZ-E

BS 7655 type LTS1 – LTS2 & LTS3 – LTS4

IEC 60092-360 type SHF1

Product Data:

Property	Test Method	Unit	Value
Physical Properties			
Melt Flow Rate (150°C-21,6 kg)	ASTM D 1238	gr/10 min	7,5
Specific Weight (23°C)	ASTM D-792	gr/cm ³	1,52
Hardness	ISO 868	Shore D	54
Mechanical Properties			
Tensile Strength	ISO 527	Mpa	13
Elongation at Break	ISO 527	%	190
Heat Ageing (110 °C, 168 h)	IEC 60811		
Δ Strength		%	-30
Δ Elongation		%	±40
Tear Strength	ASTM D 1938	N/mm	6
Hot Pressure Test at 90 °C	IEC 60811	%	<50
Cold Flex	ISO 458-2	°C	-20±2
Cold Bend (-15 °C±2 °C)	IEC 60811-504	-	No Cracks
Cold Elongation (-15 °C±2 °C)	IEC 60811-505	-	30 Min.
Cold Impact (-15 °C±2 °C)	IEC 60811-506	-	Pass
Chemical Properties			
Halogen Content	EN 60754-1	%	<0,5 Max.
pH	IEC 60754-2	-	>4.3
Conductivity	IEC 60754-2	μS/mm	<10
Water Absorption	IEC 60811	mg/cm ²	<5.0
LOI	ISO 4589	%	42
Smoke Density	EN-61034	% transmittance	>80
Volume Resistivity 20 °C (Alternating Polarity Method)	ASTM D257 Electrodes	Ω.cm	1.10 ¹⁵
Other Properties			
Oil IRM 902 oil (70 °C, 4 h)	IEC 60811-404		
Δ Strength		%	10
Δ Elongation		%	9

Processing:

Extrusion Temperatures: 115 °C–125 °C–130 °C –135°C –145°C–155 °C (Processing with Die Plate 40 Mesh Filter)

Extrusion Temperatures: 120 °C–125 °C–135 °C –145°C –155°C–165 °C (Processing without Die Plate and Filter)

Packaging:

It is packaged as 1250 kg in octabin.

Storage&Handling:

SX-4VV should be stored in a manner that avoids direct exposure to sunlight and heat (T<30°C). This compound should be used within 6 months after its production date. After this time it's necessary to dry the material before extrusion.

Product Information:

SX-KYR is a UV resistant or good stress crack resistant thermoplastic, flame retardant and halogen free compound with on polyolefinic basis. It can be used for production of energy, signal and control cables.

The properties of this compound comply with the requirements of,

TS HD 604 S1 type M1; IEC 60502 ST8

VDE 0207 Part 24 type HM2-HM4

BS 6724

BS 7655 type LTS1-LTS2-LTS3-LTS4

EN 50290-2-27

UNE 21123-4:2010 - ANNEX A-Table1 type DMZ-E

Product Data:

Property	Test Method	Unit	Value
Physical Properties			
Melt Flow Rate (150°C-21,6 kg)	ASTM D 1238	gr/10 min	2,5
Specific Weight (23°C)	ASTM D-792	gr/cm ³	1,45
Hardness	ISO 868	Shore D	53
Mechanical Properties			
Tensile Strength	ISO 527	Mpa	18
Elongation at Break	ISO 527	%	230
Heat Ageing (100 °C, 168 h)	IEC 60811		
Δ Strength		%	< 20
Δ Elongation		%	< 30
Tear Strength	ASTM D 1938	N/mm	8
Hot Pressure Test at 90 °C	IEC 60811	%	<50
Cold Bend (-35 °C±2 °C)	IEC 60811-504	-	No Cracks
Cold Elongation (-35 °C±2 °C)	IEC 60811-505	-	30 Min.
Cold Impact (-35 °C±2 °C)	IEC 60811-506	-	Pass
Chemical Properties			
Environmental Stress Crack Resistance (50°C)	IEC 60811-406	h	>1.000
Halogen Content	EN 60754-1	%	<0,5 Max.
pH	IEC 60754-2	-	>4.3
Conductivity	IEC 60754-2	μS/mm	<10
Water Absorption	IEC 60811	mg/cm ²	<5.0
Water Immersion	BS 6469-9.1		
Δ Strength		%	-30
Δ Elongation		%	-30
LOI	ISO 4589	%	37
Smoke Density	EN-61034	% transmittance	>80
Volume Resistivity 20 °C (Alternating Polarity Method)	ASTM D257 Electrodes	Ω.cm	1.10 ¹⁵
Other Properties			
Oil IRM 902 oil (70 °C, 4 h)	IEC 60811-404		
Δ Strength		%	10
Δ Elongation		%	9
Hydrocarbon Resistance Test	NF M 87-202		
Δ Strength		%	< 40
Δ Elongation		%	< 40

Processing:

Extrusion Temperatures: 115 °C–125 °C–130 °C –135°C –145°C–155 °C (Processing with Die Plate 40 Mesh Filter)

Extrusion Temperatures: 120 °C–125 °C–135 °C –145°C –155°C–165 °C (Processing without Die Plate and Filter)

Packaging:

It is packaged as 1000 kg in octabin.

Storage&Handling:

SX-KYR should be stored in a manner that avoids direct exposure to sunlight and heat (T<30°C). This compound should be used within 6 months after its production date. After this time it's necessary to dry the material before extrusion.

Product Information:

SX-KYR05 is a black UV resistant or good stress crack resistant thermoplastic, flame retardant and halogen free compound with on polyolefinic basis. It can be used for production of energy, signal and control cables.

The properties of this compound comply with the requirements of,

TS HD 604 S1 type M1; IEC 60502 ST8

EN 50290-2-27; BS 7655 type LTS1-LTS2-LTS3-LTS4

VDE 0207 Part 24 type HM2-HM4; BS 6724

UNE 21123-4:2010 - ANNEX A-Table1 type DMZ-E

Product Data:

Property	Test Method	Unit	Value
Physical Properties			
Melt Flow Rate (150°C-21,6 kg)	ASTM D 1238	gr/10 min	2,5
Specific Weight (23°C)	ASTM D-792	gr/cm ³	1,45
Hardness	ISO 868	Shore D	53
Carbon Black Dispersion	ISO 18553	-	Max 2,5
Mechanical Properties			
Tensile Strength	ISO 527	Mpa	17
Elongation at Break	ISO 527	%	210
Heat Ageing (100 °C, 168 h)	IEC 60811		
Δ Strength		%	< 20
Δ Elongation		%	< 30
Tear Strength	ASTM D 1938	N/mm	8
Hot Pressure Test at 90 °C	IEC 60811	%	<50
Cold Bend (-35 °C±2 °C)	IEC 60811-504	-	No Cracks
Cold Elongation (-35 °C±2 °C)	IEC 60811-505	-	30 Min.
Cold Impact (-35 °C±2 °C)	IEC 60811-506	-	Pass
Chemical Properties			
Environmental Stress Crack Resistance (50°C)	IEC 60811-406	h	>1.000
Halogen Content	EN 60754-1	%	<0,5 Max.
pH	IEC 60754-2	-	>4.3
Conductivity	IEC 60754-2	μS/mm	<10
Water Absorption	IEC 60811	mg/cm ²	<5.0
Water Immersion	BS 6469-9.1		
Δ Strength		%	-30
Δ Elongation		%	-30
LOI	ISO 4589	%	37
Smoke Density	EN-61034	% transmittance	>80
Volume Resistivity 20 °C (Alternating Polarity Method)	ASTM D257 Electrodes	Ω.cm	1.10 ¹⁵
Other Properties			
Oil IRM 902 oil (70 °C, 4 h)	IEC 60811-404		
Δ Strength		%	10
Δ Elongation		%	9
Hydrocarbon Resistance Test	NF M 87-202		
Δ Strength		%	< 40
Δ Elongation		%	< 40

Processing:

Extrusion Temperatures: 115 °C–125 °C–130 °C –135°C –145°C–155 °C (Processing with Die Plate 40 Mesh Filter)

Extrusion Temperatures: 120 °C–125 °C–135 °C –145°C –155°C–165 °C (Processing without Die Plate and Filter)

Packaging: It is packaged as 1000 kg in octabin.

Storage&Handling:

SX-KYR05 should be stored in a manner that avoids direct exposure to sunlight and heat (T<30°C). This compound should be used within 6 months after its production date. After this time it's necessary to dry the material before extrusion.

FLEXIBLE COMPOUNDS



KABKOM

Product Information:

SX-2ECO is a polyolefinic based, UV resistant, abrasion resistant and good stress crack resistant thermoplastic, flame retardant and halogen free compound. It can be used in the production of power, signal and control cables. Operating temperature for SX-2ECO is -40°C to 90°C.

The properties of this compound comply with the requirements of ,

TS HD 604 S1 type M1; IEC 60502 ST8

EN 50290-2-27

VDE 0207 Part 24 type HM2-HM4

UNE 21123-4:2010 - ANNEX A-Table1 type DMZ-E

BS 7655 type LTS1-LTS2-LTS3-LTS4

EN 60229-4.1

Product Data:

Property	Test Method	Unit	Value
Physical Properties			
Melt Flow Rate (150°C-21,6 kg)	ASTM D 1238	gr/10 min	4
Specific Weight (23°C)	ASTM D-792	gr/cm ³	1,4
Hardness	ISO 868	Shore D	47
Mechanical Properties			
Tensile Strength	ISO 527	Mpa	12,5
Elongation at Break	ISO 527	%	270
Heat Ageing (100 °C, 168 h)	DIN VDE 0207		
Δ Strength		%	-30
Δ Elongation		%	±40
Tear Strength	ASTM D 1938	N/mm	8
Hot Pressure Test at 80 °C	IEC 60811	%	<50
Abrasion Resistant	EN 60229-4.1	-	Pass
Cold Flex	ISO 458-2	°C	-20±2
Cold Bend (-15 °C±2 °C)	IEC 60811-504	-	No Cracks
Cold Elongation (-15 °C±2 °C)	IEC 60811-505	-	30 Min.
Cold Impact (-15 °C±2 °C)	IEC 60811-506	-	Pass
Chemical Properties			
Halogen Content	EN 60754-1	%	<0,5 Max.
pH	IEC 60754-2	-	>4.3
Conductivity	IEC 60754-2	μS/mm	<10
Water Absorption	IEC 60811	mg/cm ²	<5.0
LOI	ISO 4589	%	37
Smoke Density	EN-61034	% transmittance	>80
Volume Resistivity 20 °C (Alternating Polarity Method)	ASTM D257 Electrodes	Ω.cm	1.10 ¹⁵
Other Properties			
Oil IRM 902 oil (70 °C, 4 h)	IEC 60811-404		
Δ Strength		%	10
Δ Elongation		%	9

Processing:

Extrusion Temperatures: 115 °C–125 °C–130 °C –135°C –145°C–155 °C (Processing with Die Plate 40 Mesh Filter)

Extrusion Temperatures: 120 °C–125 °C–135 °C –145°C –155°C–165 °C (Processing without Die Plate and Filter)

Packaging:

It is packaged as 1250 kg in octabin.

Storage&Handling:

SX-2ECO should be stored in a manner that avoids direct exposure to sunlight and heat (T<30°C). This compound should be used within 6 months after its production date. After this time it's necessary to dry the material before extrusion.

Product Information:

SX-2P1 is a UV resistant or good stress crack resistant thermoplastic, flame retardant and halogen free compound with on polyolefinic basis. It can be used for production of energy, signal and control cables.

The properties of this compound comply with the requirements of,

TS HD 64 S1 type M1; IEC 60502 ST8

EN 50290-2-27; BS 7655 type LTS1-LTS2-LTS3-LTS4

VDE 0207 Part 24 type HM2-HM4

UNE 21123-4:2010 - ANNEX A-Table1 type DMZ-E

Product Data:

Property	Test Method	Unit	Value
Physical Properties			
Melt Flow Rate (150°C-21,6 kg)	ASTM D 1238	gr/10 min	4,5
Specific Weight (23°C)	ASTM D-792	gr/cm ³	1,4
Hardness	ISO 868	Shore D	46
Mechanical Properties			
Tensile Strength	ISO 527	Mpa	12
Elongation at Break	ISO 527	%	280
Heat Ageing (100 °C, 168 h)	DIN VDE 0207		
Δ Strength		%	-30
Δ Elongation		%	±40
Tear Strength	ASTM D 1938	N/mm	8
Hot Pressure Test at 80 °C	IEC 60811	%	<50
Cold Flex	ISO 458-2	°C	-20±2
Cold Bend (-15 °C±2 °C)	IEC 60811-504	-	No Cracks
Cold Elongation (-15 °C±2 °C)	IEC 60811-505	-	30 Min.
Cold Impact (-15 °C±2 °C)	IEC 60811-506	-	Pass
Chemical Properties			
Halogen Content	EN 60754-1	%	<0,5 Max.
pH	IEC 60754-2	-	>4.3
Conductivity	IEC 60754-2	μS/mm	<10
Water Absorption	IEC 60811	mg/cm ²	<5.0
LOI	ISO 4589	%	38
Smoke Density	EN-61034	% transmittance	>80
Volume Resistivity 20 °C (Alternating Polarity Method)	ASTM D257 Electrodes	Ω.cm	1.10 ¹⁵
Other Properties			
Oil IRM 902 oil (70 °C, 4 h)	IEC 60811-404		
Δ Strength		%	10
Δ Elongation		%	9

Processing:

Extrusion Temperatures: 115 °C–125 °C–130 °C –135°C –140°C–145 °C (Processing with Die Plate 40 Mesh Filter)

Extrusion Temperatures: 120 °C–125 °C–135 °C –145°C –155°C–165 °C (Processing without Die Plate and Filter)

Packaging:

It is packaged as 1250 kg in octabin.

Storage&Handling:

SX-2P1 should be stored in a manner that avoids direct exposure to sunlight and heat (T<30°C). This compound should be used within 6 months after its production date. After this time it's necessary to dry the material before extrusion.

Product Information:

SX-ARL is a UV resistant or good stress crack resistant thermoplastic, flame retardant and halogen free compound with on polyolefinic basis. It can be used for production of energy, signal and control cables.

The properties of this compound comply with the requirements of,

ISO 1872-PE; EN 50290-2-27; EN 50363-8 TM7

IEC 60502 Part 1 Type ST3, ST8

VDE 0207 Teil 24 HM4; BS 7655 LTS2

IEC 60840 ST12; HD 632 S2-S3 DMZ2

ASTM D 1248 Type I, Class C, Category 4

Product Data:

Property	Test Method	Unit	Value
Physical Properties			
Melt Flow Rate (150°C-21,6 kg)	ASTM D 1238	gr/10 min	9
Specific Weight (23°C)	ASTM D-792	gr/cm ³	1,28
Hardness	ISO 868	Shore D	50
Mechanical Properties			
Tensile Strength	ISO 527	Mpa	14
Elongation at Break	ISO 527	%	450
Heat Ageing (110 °C, 240 h)	IEC 60811		
Δ Strength		%	< 20
Δ Elongation		%	< 20
Tear Strength	ASTM D 1938	N/mm	17
Hot Pressure Test at 90 °C	IEC 60811	%	<50
Cold Flex	ISO 458-2	°C	-40±2
Cold Bend (-35 °C±2 °C)	IEC 60811-504	-	No Cracks
Cold Elongation (-35 °C±2 °C)	IEC 60811-505	-	30 Min.
Cold Impact (-35 °C±2 °C)	IEC 60811-506	-	Pass
Chemical Properties			
Environmental Stress Crack Resistance (50°C)	IEC 60811-406	h	>1.000
Halogen Content	EN 60754-1	%	<0,5 Max.
pH	IEC 60754-2	-	>4.3
Conductivity	IEC 60754-2	μS/mm	<10
Water Absorption	IEC 60811	mg/cm ²	<5.0
Water Immersion	BS 6469-9.1		
Δ Strength		%	-30
Δ Elongation		%	-30
LOI	ISO 4589	%	34
Smoke Density	EN-61034	% transmittance	>80
Volume Resistivity 20 °C (Alternating Polarity Method)	ASTM D257 Electrodes	Ω.cm	1.10 ¹⁵
Other Properties			
Oil IRM 902 oil (70 °C, 4 h)	IEC 60811-404		
Δ Strength		%	10
Δ Elongation		%	9

Processing:

Extrusion Temperatures: 90°C–110°C–120°C–130°C–140°C

Packaging:

It is packaged as 1000 kg in octabin.

Storage&Handling:

SX-ARL should be stored in a manner that avoids direct exposure to sunlight and heat (T<30°C). This compound should be used within 6 months after its production date. After this time it's necessary to dry the material before extrusion.

Product Information:

SX-ARL05 is a black UV resistant or good stress crack resistant thermoplastic, flame retardant and halogen free compound with on polyolefinic basis. It can be used production of high voltage energy cables.

The properties of this compound comply with the requirements of,

ISO 1872-PE; EN 50290-2-27; EN 50363-8 TM7

IEC 60502, Part 1, Type ST3, ST8

VDE 0207 Teil 24 HM4; BS 7655 LTS2

IEC 60840 ST12; HD 632 S2-S3 DMZ2

ASTM D 1248 Type I, Class C, Category 4

Product Data:

Property	Test Method	Unit	Value
Physical Properties			
Melt Flow Rate (150°C-21,6 kg)	ASTM D 1238	gr/10 min	11,5
Specific Weight (23°C)	ASTM D-792	gr/cm ³	1,28
Hardness	ISO 868	Shore D	50
Carbon Black Dispersion	ISO 18553	-	2,6
Mechanical Properties			
Tensile Strength	ISO 527	Mpa	15
Elongation at Break	ISO 527	%	450
Heat Ageing (110 °C, 240 h)	IEC 60811		
Δ Strength		%	< 20
Δ Elongation		%	< 20
Tear Strength	ASTM D 1938	N/mm	14
Hot Pressure Test at 90 °C	IEC 60811	%	<50
Cold Flex	ISO 458-2	°C	-40±2
Cold Bend (-35 °C±2 °C)	IEC 60811-504	-	No Cracks
Cold Elongation (-35 °C±2 °C)	IEC 60811-505	-	30 Min.
Cold Impact (-35 °C±2 °C)	IEC 60811-506	-	Pass
Chemical Properties			
Environmental Stress Crack Resistance (50°C)	IEC 60811-406	h	>1.000
Halogen Content	EN 60754-1	%	<0,5 Max.
pH	IEC 60754-2	-	>4.3
Conductivity	IEC 60754-2	μS/mm	<10
Water Absorption	IEC 60811	mg/cm ²	<5.0
Water Immersion	BS 6469-9.1		
Δ Strength		%	-30
Δ Elongation		%	-30
LOI	ISO 4589	%	34
Smoke Density	EN-61034	% transmittance	>80
Volume Resistivity 20 °C (Alternating Polarity Method)	ASTM D257 Electrodes	Ω.cm	1.10 ¹⁵
Other Properties			
Oil IRM 902 oil (70 °C, 4 h)	IEC 60811-404		
Δ Strength		%	10
Δ Elongation		%	9

Processing:

Extrusion Temperatures: 90°C–110°C–120°C–130°C–140°C

Packaging:

It is packaged as 1000 kg in octabin.

Storage&Handling:

SX-ARL05 should be stored in a manner that avoids direct exposure to sunlight and heat (T<30°C). This compound should be used within 6 months after its production date. After this time it's necessary to dry the material before extrusion.

Product Information:

SX-BS FLEX is UV thermoplastic, flame retardant and halogen free compound on polyolefinic basis. It can be used for production of energy, signal and control cables.

The properties of this compound comply with the requirements of,

VDE 0207 Part 24 type HM2

EN 50363-8 type TM7

EN 50363-7 type T16

Product Data:

Property	Test Method	Unit	Value
Physical Properties			
Melt Flow Rate (150°C-21,6 kg)	ASTM D 1238	gr/10 min	8
Specific Weight (23°C)	ASTM D-792	gr/cm ³	1,39
Hardness	ISO 868	Shore D	50
Mechanical Properties			
Tensile Strength	ISO 527	Mpa	13
Elongation at Break	ISO 527	%	300
Heat Ageing (100 °C, 168 h)	IEC 60811		
Δ Strength		%	-30
Δ Elongation		%	±40
Tear Strength	ASTM D 1938	N/mm	12
Hot Pressure Test at 80 °C	IEC 60811	%	<50
Cold Flex	ISO 458-2	°C	-18±2
Cold Bend (-15 °C±2 °C)	IEC 60811-504	-	No Cracks
Cold Elongation (-15 °C±2 °C)	IEC 60811-505	-	30 Min.
Cold Impact (-15 °C±2 °C)	IEC 60811-506	-	Pass
Chemical Properties			
Halogen Content	EN 60754-1	%	<0,5 Max.
pH	IEC 60754-2	-	>4.3
Conductivity	IEC 60754-2	μS/mm	<10
Water Absorption	IEC 60811	mg/cm ²	<5.0
LOI	ISO 4589	%	40
Smoke Density	EN-61034	% transmittance	>80
Volume Resistivity 20 °C (Alternating Polarity Method)	ASTM D257 Electrodes	Ω.cm	1.10 ¹⁵
Other Properties			
Oil IRM 902 oil (70 °C, 4 h)	IEC 60811-404		
Δ Strength		%	10
Δ Elongation		%	9

Processing:

Extrusion Temperatures: 110 °C–120 °C–125 °C –130°C –135°C–135°C (Processing with Die Plate 40 Mesh Filter)

Extrusion Temperatures: 115 °C–120 °C–130 °C –135°C –140°C–145°C (Processing without Die Plate and Filter)

Packaging:

It is packaged as 1250 kg in octabin.

Storage&Handling:

SX-BS FLEX should be stored in a manner that avoids direct exposure to sunlight and heat (T<30°C). This compound should be used within 6 months after its production date. After this time it's necessary to dry the material before extrusion.

Product Information:

SX-ECO81 is a polyolefinic based, abrasion resistant and good stress crack resistant thermoplastic, flame retardant and halogen free compound. It can be used in the production of power, signal and control cables. Operating temperature for SX-ECO81 is 90°C.

The properties of this compound comply with the requirements of,

TS HD 604 S1 type M1; IEC 60502 ST8

EN 50290-2-27

VDE 0207 Part 24 type HM2-HM4

UNE 21123-4:2010 - ANNEX A-Table1 type DMZ-E

BS 7655 type LTS1-LTS2-LTS3-LTS4

EN 60229-4.1

Product Data:

Property	Test Method	Unit	Value
Physical Properties			
Melt Flow Rate (150°C-21,6 kg)	ASTM D 1238	gr/10 min	4
Specific Weight (23°C)	ASTM D-792	gr/cm ³	1,43
Hardness	ISO 868	Shore D	47
Mechanical Properties			
Tensile Strength	ISO 527	Mpa	15
Elongation at Break	ISO 527	%	200
Heat Ageing (100 °C, 168 h)	DIN VDE 0207		
Δ Strength		%	-30
Δ Elongation		%	±40
Tear Strength	ASTM D 1938	N/mm	12
Hot Pressure Test at 80 °C	IEC 60811	%	<50
Abrasion Resistant	EN 60229-4.1	-	Pass
Cold Flex	ISO 458-2	°C	-20±2
Cold Bend (-40 °C±2 °C)	IEC 60811-504	-	No Cracks
Cold Elongation (-15 °C±2 °C)	IEC 60811-505	-	30 Min.
Cold Impact (-15 °C±2 °C)	IEC 60811-506	-	Pass
Chemical Properties			
Halogen Content	EN 60754-1	%	<0,5 Max.
pH	IEC 60754-2	-	>4.3
Conductivity	IEC 60754-2	μS/mm	<10
Water Absorption	IEC 60811	mg/cm ²	<5.0
LOI	ISO 4589	%	37
Smoke Density	EN-61034	% transmittance	>80
Volume Resistivity 20 °C (Alternating Polarity Method)	ASTM D257 Electrodes	Ω.cm	1.10 ¹⁵
Other Properties			
Oil IRM 902 oil (70 °C, 4 h)	IEC 60811-404		
Δ Strength		%	10
Δ Elongation		%	9

Processing:

Extrusion Temperatures: 115 °C–125 °C–130 °C –135°C –145°C–155 °C (Processing with Die Plate 40 Mesh Filter)

Extrusion Temperatures: 120 °C–125 °C–135 °C –145°C –155°C–165 °C (Processing without Die Plate and Filter)

Packaging:

It is packaged as 1250 kg in octabin.

Storage&Handling:

SX-ECO81 should be stored in a manner that avoids direct exposure to sunlight and heat (T<30°C). This compound should be used within 6 months after its production date. After this time it's necessary to dry the material before extrusion.

Product Information:

SX-ECOUV is a polyolefinic based, UV resistant, abrasion resistant and good stress crack resistant thermoplastic, flame retardant and halogen free compound. It can be used in the production of power, signal and control cables. Operating temperature for SX-ECOUV is 90°C.

The properties of this compound comply with the requirements of,

TS HD 604 S1 type M1; IEC 60502 ST8

EN 50290-2-27

VDE 0207 Part 24 type HM2-HM4

UNE 21123-4:2010 - ANNEX A-Table1 type DMZ-E

BS 7655 type LTS1-LTS2-LTS3-LTS4

EN 60229-4.1

Product Data:

Property	Test Method	Unit	Value
Physical Properties			
Melt Flow Rate (150°C-21,6 kg)	ASTM D 1238	gr/10 min	4,5
Specific Weight (23°C)	ASTM D-792	gr/cm ³	1,43
Hardness	ISO 868	Shore D	50
Mechanical Properties			
Tensile Strength	ISO 527	Mpa	15
Elongation at Break	ISO 527	%	190
Heat Ageing (100 °C, 168 h)	DIN VDE 0207		
Δ Strength		%	-30
Δ Elongation		%	±40
Tear Strength	ASTM D 1938	N/mm	11
Hot Pressure Test at 80 °C	IEC 60811	%	<50
Abrasion Resistant	EN 60229-4.1	-	Pass
Cold Flex	ISO 458-2	°C	-40±2
Cold Bend (-15 °C±2 °C)	IEC 60811-504	-	No Cracks
Cold Elongation (-15 °C±2 °C)	IEC 60811-505	-	30 Min.
Cold Impact (-15 °C±2 °C)	IEC 60811-506	-	Pass
Chemical Properties			
Halogen Content	EN 60754-1	%	<0,5 Max.
pH	IEC 60754-2	-	>4.3
Conductivity	IEC 60754-2	μS/mm	<10
Water Absorption	IEC 60811	mg/cm ²	<5.0
LOI	ISO 4589	%	37
Smoke Density	EN-61034	% transmittance	>80
Volume Resistivity 20 °C (Alternating Polarity Method)	ASTM D257 Electrodes	Ω.cm	1.10 ¹⁵
Other Properties			
Oil IRM 902 oil (70 °C, 4 h)	IEC 60811-404		
Δ Strength		%	10
Δ Elongation		%	9

Processing:

Extrusion Temperatures: 115 °C–125 °C–130 °C –135°C –145°C–155 °C (Processing with Die Plate 40 Mesh Filter)

Extrusion Temperatures: 120 °C–125 °C–135 °C –145°C –155°C–165 °C (Processing without Die Plate and Filter)

Packaging:

It is packaged as 1250 kg in octabin.

Storage&Handling:

SX-ECOUV should be stored in a manner that avoids direct exposure to sunlight and heat (T<30°C). This compound should be used within 6 months after its production date. After this time it's necessary to dry the material before extrusion.

Product Information:

SX-FLEX10 is UV thermoplastic, flame retardant and halogen free compound on polyolefinic basis. It can be used for production of energy, signal and control cables. The operating temperature for SX-FLEX10 is 90 °C.

The properties of this compound comply with the requirements of

TS HD 604 S1 type HM4

EN 50363-8 type TM7

EN 50363-7 type T16

VDE 0207 Part 24 type HM2

Product Data:

Property	Test Method	Unit	Value
Physical Properties			
Melt Flow Rate (150°C-21,6 kg)	ASTM D 1238	gr/10 min	7,5
Specific Weight (23°C)	ASTM D-792	gr/cm ³	1,38
Hardness	ISO 868	Shore D	49
Mechanical Properties			
Tensile Strength	ISO 527	Mpa	13
Elongation at Break	ISO 527	%	400
Heat Ageing (100 °C, 168 h)	IEC 60811		
Δ Strength		%	-30
Δ Elongation		%	±40
Tear Strength	ASTM D 1938	N/mm	13
Hot Pressure Test at 80 °C	IEC 60811	%	<50
Cold Flex	ISO 458-2	°C	-20±2
Cold Bend (-15 °C±2 °C)	IEC 60811-504	-	No Cracks
Cold Elongation (-15 °C±2 °C)	IEC 60811-505	-	30 Min.
Cold Impact (-15 °C±2 °C)	IEC 60811-506	-	Pass
Chemical Properties			
Halogen Content	EN 60754-1	%	<0,5 Max.
pH	IEC 60754-2	-	>4.3
Conductivity	IEC 60754-2	μS/mm	<10
Water Absorption	IEC 60811	mg/cm ²	<5.0
LOI	ISO 4589	%	40
Smoke Density	EN-61034	% transmittance	>80
Volume Resistivity 20 °C (Alternating Polarity Method)	ASTM D257 Electrodes	Ω.cm	1.10 ¹⁵
Other Properties			
Oil IRM 902 oil (70 °C, 4 h)	IEC 60811-404		
Δ Strength		%	10
Δ Elongation		%	9

Processing:

Extrusion Temperatures: 110 °C–120 °C–125 °C –130°C –135°C–135°C (Processing with Die Plate 40 Mesh Filter)

Extrusion Temperatures: 115 °C–120 °C–130 °C –135°C –140°C–145°C (Processing without Die Plate and Filter)

Packaging:

It is packaged as 1250 kg in octabin.

Storage&Handling:

SX-FLEX10 should be stored in a manner that avoids direct exposure to sunlight and heat (T<30°C). This compound should be used within 6 months after its production date. After this time it's necessary to dry the material before extrusion.

Product Information:

SX-FLEX20 is UV thermoplastic, flame retardant and halogen free compound on polyolefinic basis. It can be used for production of energy, signal and control cables. The operating temperature for SX-FLEX20 is 90 °C.

The properties of this compound comply with the requirements of

TS HD 604 S1 type HM4

EN 50363-8 type TM7

EN 50363-7 type T16

VDE 0207 Part 24 type HM2

Product Data:

Property	Test Method	Unit	Value
Physical Properties			
Melt Flow Rate (150°C-21,6 kg)	ASTM D 1238	gr/10 min	8,5
Specific Weight (23°C)	ASTM D-792	gr/cm ³	1,38
Hardness	ISO 868	Shore D	51
Mechanical Properties			
Tensile Strength	ISO 527	Mpa	14
Elongation at Break	ISO 527	%	320
Heat Ageing (100 °C, 168 h)	IEC 60811		
Δ Strength		%	-30
Δ Elongation		%	±40
Tear Strength	ASTM D 1938	N/mm	14
Hot Pressure Test at 80 °C	IEC 60811	%	<50
Cold Flex	ISO 458-2	°C	-50±2
Cold Bend (-15 °C±2 °C)	IEC 60811-504	-	No Cracks
Cold Elongation (-15 °C±2 °C)	IEC 60811-505	-	30 Min.
Cold Impact (-15 °C±2 °C)	IEC 60811-506	-	Pass
Chemical Properties			
Halogen Content	EN 60754-1	%	<0,5 Max.
pH	IEC 60754-2	-	>4.3
Conductivity	IEC 60754-2	μS/mm	<10
Water Absorption	IEC 60811	mg/cm ²	<5.0
LOI	ISO 4589	%	33
Smoke Density	EN-61034	% transmittance	>80
Volume Resistivity 20 °C (Alternating Polarity Method)	ASTM D257 Electrodes	Ω.cm	1.10 ¹⁵
Other Properties			
Oil IRM 902 oil (70 °C, 4 h)	IEC 60811-404		
Δ Strength		%	10
Δ Elongation		%	9

Processing:

Extrusion Temperatures: 110 °C–120 °C–125 °C –130°C –135°C–135°C (Processing with Die Plate 40 Mesh Filter)

Extrusion Temperatures: 115 °C–120 °C–130 °C –135°C –140°C–145°C (Processing without Die Plate and Filter)

Packaging:

It is packaged as 1250 kg in octabin.

Storage&Handling:

SX-FLEX20 should be stored in a manner that avoids direct exposure to sunlight and heat (T<30°C). This compound should be used within 6 months after its production date. After this time it's necessary to dry the material before extrusion.

Product Information:

SX-FLEX040 is UV thermoplastic, flame retardant and halogen free compound on polyolefinic basis. It can be used for production of energy, signal and control cables. The operating temperature for SX-FLEX040 is 90 °C.

The properties of this compound comply with the requirements of

TS HD 604 S1 type HM4

EN 50363-8 type TM7

EN 50363-7 type T16

VDE 0207 Part 24 type HM2

Product Data:

Property	Test Method	Unit	Value
Physical Properties			
Melt Flow Rate (150°C-21,6 kg)	ASTM D 1238	gr/10 min	7
Specific Weight (23°C)	ASTM D-792	gr/cm ³	1,52
Hardness	ISO 868	Shore D	53
Mechanical Properties			
Tensile Strength	ISO 527	Mpa	12,5
Elongation at Break	ISO 527	%	185
Heat Ageing (100 °C, 168 h)	IEC 60811		
Δ Strength		%	-30
Δ Elongation		%	±40
Tear Strength	ASTM D 1938	N/mm	5,5
Hot Pressure Test at 80 °C	IEC 60811	%	<50
Cold Flex	ISO 458-2	°C	-20±2
Cold Bend (-15 °C±2 °C)	IEC 60811-504	-	No Cracks
Cold Elongation (-15 °C±2 °C)	IEC 60811-505	-	30 Min.
Cold Impact (-15 °C±2 °C)	IEC 60811-506	-	Pass
Chemical Properties			
Halogen Content	EN 60754-1	%	<0,5 Max.
pH	IEC 60754-2	-	>4.3
Conductivity	IEC 60754-2	μS/mm	<10
Water Absorption	IEC 60811	mg/cm ²	<5.0
LOI	ISO 4589	%	41
Smoke Density	EN-61034	% transmittance	>80
Volume Resistivity 20 °C (Alternating Polarity Method)	ASTM D257 Electrodes	Ω.cm	1.10 ¹⁵
Other Properties			
Oil IRM 902 oil (70 °C, 4 h)	IEC 60811-404		
Δ Strength		%	10
Δ Elongation		%	9

Processing:

Extrusion Temperatures: 110 °C–120 °C–125 °C –130°C –135°C–135°C (Processing with Die Plate 40 Mesh Filter)

Extrusion Temperatures: 115 °C–120 °C–130 °C –135°C –140°C–145°C (Processing without Die Plate and Filter)

Packaging:

It is packaged as 1250 kg in octabin.

Storage&Handling:

SX-FLEX040 should be stored in a manner that avoids direct exposure to sunlight and heat (T<30°C). This compound should be used within 6 months after its production date. After this time it's necessary to dry the material before extrusion.

Product Information:

SX-FLEX105 is UV black thermoplastic, flame retardant and halogen free compound on polyolefinic basis. It can be used for production of energy, signal and control cables. The operating temperature for SX-FLEX105 is 90 °C. The properties of this compound comply with the requirements of

TS HD 604 S1 type HM4

EN 50363-8 type TM7

EN 50363-7 type T16

VDE 0207 Part 24 type HM2

Product Data:

Property	Test Method	Unit	Value
Physical Properties			
Color	ASTM E 1164	-	RAL 9005
Melt Flow Rate (150°C-21,6 kg)	ASTM D 1238	gr/10 min	7
Specific Weight (23°C)	ASTM D-792	gr/cm ³	1,38
Hardness	ISO 868	Shore D	50
Mechanical Properties			
Tensile Strength	ISO 527	Mpa	12,5
Elongation at Break	ISO 527	%	380
Heat Ageing (100 °C, 168 h)	IEC 60811		
Δ Strength		%	-30
Δ Elongation		%	±40
Tear Strength	ASTM D 1938	N/mm	12
Hot Pressure Test at 80 °C	IEC 60811	%	<50
Cold Flex	ISO 458-2	°C	-20±2
Cold Bend (-15 °C±2 °C)	IEC 60811-504	-	No Cracks
Cold Elongation (-15 °C±2 °C)	IEC 60811-505	-	30 Min.
Cold Impact (-15 °C±2 °C)	IEC 60811-506	-	Pass
Chemical Properties			
Halogen Content	EN 60754-1	%	<0,5 Max.
pH	IEC 60754-2	-	>4.3
Conductivity	IEC 60754-2	μS/mm	<10
Water Absorption	IEC 60811	mg/cm ²	<5.0
LOI	ISO 4589	%	40
Smoke Density	EN-61034	% transmittance	>80
Volume Resistivity 20 °C (Alternating Polarity Method)	ASTM D257 Electrodes	Ω.cm	1.10 ¹⁵
Other Properties			
Oil IRM 902 oil (70 °C, 4 h)	IEC 60811-404		
Δ Strength		%	10
Δ Elongation		%	9

Processing:

Extrusion Temperatures: 110 °C–120 °C–125 °C –130°C –135°C–135°C (Processing with Die Plate 40 Mesh Filter)

Extrusion Temperatures: 115 °C–120 °C–130 °C –135°C –140°C–145°C (Processing without Die Plate and Filter)

Packaging:

It is packaged as 1250 kg in octabin.

Storage&Handling:

SX-FLEX105 should be stored in a manner that avoids direct exposure to sunlight and heat (T<30°C). This compound should be used within 6 months after its production date. After this time it's necessary to dry the material before extrusion.

Product Information:

SX-FS FLEX is UV thermoplastic, flame retardant and halogen free compound on polyolefinic basis. It can be used for production of energy, signal and control cables.

The properties of this compound comply with the requirements of,

VDE 0207 Part 24 type HM2

EN 50363-8 type TM7

EN 50363-7 type T16

Product Data:

Property	Test Method	Unit	Value
Physical Properties			
Melt Flow Rate (150°C-21,6 kg)	ASTM D 1238	gr/10 min	8
Specific Weight (23°C)	ASTM D-792	gr/cm ³	1,39
Hardness	ISO 868	Shore D	50
Mechanical Properties			
Tensile Strength	ISO 527	Mpa	13,5
Elongation at Break	ISO 527	%	320
Heat Ageing (100 °C, 168 h)	IEC 60811		
Δ Strength		%	-30
Δ Elongation		%	±40
Tear Strength	ASTM D 1938	N/mm	13
Hot Pressure Test at 80 °C	IEC 60811	%	<50
Cold Flex	ISO 458-2	°C	-20±2
Cold Bend (-15 °C±2 °C)	IEC 60811-504	-	No Cracks
Cold Elongation (-15 °C±2 °C)	IEC 60811-505	-	30 Min.
Cold Impact (-15 °C±2 °C)	IEC 60811-506	-	Pass
Chemical Properties			
Halogen Content	EN 60754-1	%	<0,5 Max.
pH	IEC 60754-2	-	>4.3
Conductivity	IEC 60754-2	μS/mm	<10
Water Absorption	IEC 60811	mg/cm ²	<5.0
LOI	ISO 4589	%	39
Smoke Density	EN-61034	% transmittance	>80
Volume Resistivity 20 °C (Alternating Polarity Method)	ASTM D257 Electrodes	Ω.cm	1.10 ¹⁵
Other Properties			
Oil IRM 902 oil (70 °C, 4 h)	IEC 60811-404		
Δ Strength		%	10
Δ Elongation		%	9

Processing:

Extrusion Temperatures: 110 °C–120 °C–125 °C –130°C –135°C–135°C (Processing with Die Plate 40 Mesh Filter)

Extrusion Temperatures: 115 °C–120 °C–130 °C –135°C –140°C–145°C (Processing without Die Plate and Filter)

Packaging:

It is packaged as 1250 kg in octabin.

Storage&Handling:

SX-FS FLEX should be stored in a manner that avoids direct exposure to sunlight and heat (T<30°C). This compound should be used within 6 months after its production date. After this time it's necessary to dry the material before extrusion.

Product Information:

SX-NL is UV resistant or good stress crack resistant thermoplastic, flame retardant and halogen free compound with on polyolefinic basis. It can be used for production of energy, signal and control cables.

The properties of this compound comply with the requirements of

ISO 1872-PE; BS 7211; EN 50363-7 T16 & T17

BS 7655 LTS2; HD 632 S2-S3 DMZ2

EN 50290-2-27; EN 50363-8 TM7

ASTM D 1248 Type I Class C, Category 4

VDE 0207 Teil 23 HI2 and Teil HM2, HM4 & HM5

IEC 60502 Part 1 Type ST3-ST8; IEC 60840 ST12

Product Data:

Property	Test Method	Unit	Value
Physical Properties			
Melt Flow Rate (150°C-21,6 kg)	ASTM D 1238	gr/10 min	8
Specific Weight (23°C)	ASTM D-792	gr/cm ³	1,21
Hardness	ISO 868	Shore D	41
Mechanical Properties			
Tensile Strength	ISO 527	Mpa	15
Elongation at Break	ISO 527	%	530
Heat Ageing (110 °C, 240 h)	IEC 60811		
Δ Strength		%	< 20
Δ Elongation		%	< 20
Tear Strength	ASTM D 1938	N/mm	17
Hot Pressure Test at 90 °C	IEC 60811	%	<50
Cold Bend (-35 °C±2 °C)	IEC 60811-504	-	No Cracks
Cold Elongation (-35 °C±2 °C)	IEC 60811-505	-	30 Min.
Cold Impact (-35 °C±2 °C)	IEC 60811-506	-	Pass
Chemical Properties			
Environmental Stress Crack Resistance (50°C)	IEC 60811-406	h	>1.000
Halogen Content	EN 60754-1	%	<0,5 Max.
pH	IEC 60754-2	-	>4.3
Conductivity	IEC 60754-2	μS/mm	<10
Water Absorption	IEC 60811	mg/cm ²	<5.0
Water Immersion	BS 6469-9.1		
Δ Strength		%	-30
Δ Elongation		%	-30
LOI	ISO 4589	%	32
Smoke Density	EN-61034	% transmittance	>80
Volume Resistivity 20 °C (Alternating Polarity Method)	ASTM D257 Electrodes	Ω.cm	1.10 ¹⁵
Other Properties			
Oil IRM 902 oil (70 °C, 4 h)	IEC 60811-404		
Δ Strength		%	10
Δ Elongation		%	9

Processing:

Extrusion Temperatures: 115 °C–125 °C–130 °C –135°C –145°C–155 °C (Processing with Die Plate 40 Mesh Filter)

Extrusion Temperatures: 120 °C–125 °C–135 °C –145°C –155°C–165 °C (Processing without Die Plate and Filter)

Packaging:

It is packaged as 1000 kg in octabin.

Storage&Handling:

SX-NL should be stored in a manner that avoids direct exposure to sunlight and heat (T<30°C). This compound should be used within 6 months after its production date. After this time it's necessary to dry the material before extrusion.

SPECIAL COMPOUNDS



KABKOM

Product Information:

SC-DBFR is UV thermoplastic halogen free, flame retardant and low smoke emission compound, for cable insulation and sheathing. It can be used for the production of energy, signal and control cables.

The properties of this compound comply with the requirements of,

TS HD 604 S1 type M1; EN 50363-7 type T17

EN 50290-2-27

IEC 60502 ST8; VDE 0207 Part 24 type HM2-HM4

UNE 21123-4:2010 – ANNEX A-Table1 type DMZ-E,

BS 7655 type LTS1 – LTS2 & LTS3 – LTS4

IEC 60092-360 type SHF1

Product Data:

Property	Test Method	Unit	Value
Physical Properties			
Melt Flow Rate (150°C-21,6 kg)	ASTM D 1238	gr/10 min	7
Specific Weight (23°C)	ASTM D-792	gr/cm ³	1,50
Hardness	ISO 868	Shore D	53
Mechanical Properties			
Tensile Strength	ISO 527	Mpa	12,5
Elongation at Break	ISO 527	%	190
Heat Ageing (110 °C, 168 h)	IEC 60811		
Δ Strength		%	-30
Δ Elongation		%	±40
Tear Strength	ASTM D 1938	N/mm	6
Hot Pressure Test at 90 °C	IEC 60811	%	<50
Cold Flex	ISO 458-2	°C	-20±2
Cold Bend (-15 °C±2 °C)	IEC 60811-504	-	No Cracks
Cold Elongation (-15 °C±2 °C)	IEC 60811-505	-	30 Min.
Cold Impact (-15 °C±2 °C)	IEC 60811-506	-	Pass
Chemical Properties			
Halogen Content	EN 60754-1	%	<0,5 Max.
pH	IEC 60754-2	-	>4.3
Conductivity	IEC 60754-2	μS/mm	<10
Water Absorption	IEC 60811	mg/cm ²	<5.0
LOI	ISO 4589	%	40
Smoke Density	EN-61034	% transmittance	>80
Volume Resistivity 20 °C (Alternating Polarity Method)	ASTM D257 Electrodes	Ω.cm	1.10 ¹⁵
Other Properties			
Oil IRM 902 oil (70 °C, 4 h)	IEC 60811-404		
Δ Strength		%	10
Δ Elongation		%	9

Processing:

Extrusion Temperatures: 115 °C–125 °C–130 °C –135°C –145°C–155 °C (Processing with Die Plate 40 Mesh Filter)

Extrusion Temperatures: 120 °C–125 °C–135 °C –145°C –155°C–165 °C (Processing without Die Plate and Filter)

Packaging:

It is packaged as 1250 kg in octabin.

Storage&Handling:

SC-DBFR should be stored in a manner that avoids direct exposure to sunlight and heat (T<30°C). This compound should be used within 6 months after its production date. After this time it's necessary to dry the material before extrusion.

HFFR JACKETING COMPOUNDS



KABKOM



Product Information:

KK-SICO481 is a black UV resistant or good stress crack resistant thermoplastic, flame retardant and halogen free compound with on polyolefinic basis. It can be used production of high voltage energy cables.

The properties of this compound comply with the requirements of,

ISO 1872-PE; EN 50290-2-27; EN 50363-8 TM7

IEC 60502, Part 1, Type ST3, ST8

VDE 0207 Teil 24 HM4; BS 7655 LTS2

IEC 60840 ST12; HD 632 S2-S3 DMZ2

ASTM D 1248 Type I, Class C, Category 4

Product Data:

Property	Test Method	Unit	Value
Physical Properties			
Melt Flow Rate (150°C-21,6 kg)	ASTM D 1238	gr/10 min	11,5
Specific Weight (23°C)	ASTM D-792	gr/cm ³	1,28
Hardness	ISO 868	Shore D	50
Carbon Black Dispersion	ISO 18553	-	2,6
Mechanical Properties			
Tensile Strength	ISO 527	Mpa	15
Elongation at Break	ISO 527	%	450
Heat Ageing (110 °C, 240 h)	IEC 60811		
Δ Strength		%	< 20
Δ Elongation		%	< 20
Tear Strength	ASTM D 1938	N/mm	14
Hot Pressure Test at 90 °C	IEC 60811	%	<50
Cold Flex	ISO 458-2	°C	-40±2
Cold Bend (-35 °C±2 °C)	IEC 60811-504	-	No Cracks
Cold Elongation (-35 °C±2 °C)	IEC 60811-505	-	30 Min.
Cold Impact (-35 °C±2 °C)	IEC 60811-506	-	Pass
Chemical Properties			
Environmental Stress Crack Resistance (50°C)	IEC 60811-406	h	>1.000
Halogen Content	EN 60754-1	%	<0,5 Max.
pH	IEC 60754-2	-	>4.3
Conductivity	IEC 60754-2	μS/mm	<10
Water Absorption	IEC 60811	mg/cm ²	<5.0
Water Immersion	BS 6469-9.1		
Δ Strength		%	-30
Δ Elongation		%	-30
LOI	ISO 4589	%	34
Smoke Density	EN-61034	% transmittance	>80
Volume Resistivity 20 °C (Alternating Polarity Method)	ASTM D257 Electrodes	Ω.cm	1.10 ¹⁵
Other Properties			
Oil IRM 902 oil (70 °C, 4 h)	IEC 60811-404		
Δ Strength		%	10
Δ Elongation		%	9

Processing:

Extrusion Temperatures: 90°C–110°C–120°C–130°C–140°C

Packaging:

It is packaged as 1000 kg in octabin.

Storage&Handling:

KK-SICO481 should be stored in a manner that avoids direct exposure to sunlight and heat (T<30°C). This compound should be used within 6 months after its production date. After this time it's necessary to dry the material before extrusion.

Product Information:

KK-SICO487 is a thermoplastic, halogen free flame retardant natural jacketing compound with high mechanical strength, durability, UV resistance and excellent extrusion properties.

Typical features of the KK-SICO487 product,

- Excellent processing properties
- No need for pre-drying
- High mechanical strength and toughness
- Low water permeability
- No need for pre-drying
- UV resistance

The properties of this compound comply with the requirements of,

EN 50363-8 TM7

BS 7655 LTS3

VDE 0207 Teil 24 (HM2)

EN 50290-2-27

EN 50288

Product Data:

Property	Test Method	Unit	Value
Physical Properties			
Melt Flow Rate (190°C-2,16 kg)	ASTM D 1238	gr/10 min	0,9
Specific Weight (23°C)	ASTM D-792	gr/cm ³	1,15
Hardness	ISO 868	Shore D	45
Mechanical Properties			
Tensile Strength	ISO 527	Mpa	16
Elongation at Break	ISO 527	%	650
Heat Ageing (100 °C, 240 h)	IEC 60811		
Δ Strength		%	≤ 20
UV Ageing	IEC 60811		
Δ Strength		%	≤ 20
Tear Strength	ASTM D 1938	N/mm	15
Hot Pressure (Test at 80 °C, 4 h)	IEC 60811-508	%	<50
Cold Flex	ISO 458-2	°C	-40±2
Cold Bend (-40°C ±2 °C)	IEC 60811-504	-	No Cracks
Cold Impact (-40°C ±2 °C)	IEC 60811-506	-	Pass
Chemical Properties			
Halogen Content	EN 60754-1	%	<0,5 Max.
pH	IEC 60754-2	-	>4.3
Conductivity	IEC 60754-2	μS/mm	<10
Water Absorption (70°C, 168 h)	IEC 60811-402	mg/cm ²	<1
LOI	ISO 4589	%	29
Smoke Density	EN-61034	% transmittance	>80
Other Properties			
DC Volume Resistivity	IEC 60093	PΩcm	6
Oil IRM 902 oil (70 °C, 4 h)	IEC 60811-404		
Δ Strength		%	10
Δ Elongation		%	9

Processing:

Extrusion Temperatures: 120°C–130°C–140°C–150°C–160°C

Packaging: It is packaged as 1000 kg in octabin.

Storage&Handling:

KK-SICO487 should be stored in a manner that avoids direct exposure to sunlight and heat (T<30°C). This compound should be used within 6 months after its production date. After this time it's necessary to dry the material before extrusion.

Product Information:

KK-SICO683 is a thermoplastic, halogen free flame retardant natural jacketing compound with high mechanical strength, durability, UV resistance and excellent extrusion properties.

Typical features of the KK-SICO683 product,

- Excellent processing properties
- No need for pre-drying
- High mechanical strength and toughness
- Low water permeability
- No need for pre-drying
- UV resistance

The properties of this compound comply with the requirements of,

VDE 0207 Teil 24 (HM2, HM4 & HM5)

HD 632 S1; ST3; ST7, HD 620 S1 DMZ2

BS 7655 LTS1-4, HD 620 S2 DMZ 3-5

HD 603 S1 DMO 1, EN 50363-8 TM7

IEC 60502 Part 1; Type ST3; ST7

EN 50290-2-27, BS 7655 LTS1-4

Product Data:

Property	Test Method	Unit	Value
Physical Properties			
Melt Flow Rate (190°C-2,16 kg)	ASTM D 1238	gr/10 min	0,5
Specific Weight (23°C)	ASTM D-792	gr/cm ³	1,17
Hardness	ISO 868	Shore D	50
Mechanical Properties			
Tensile Strength	ISO 527	Mpa	15
Elongation at Break	ISO 527	%	550
Heat Ageing (110 °C, 168 h)	IEC 60811		
Δ Strength		%	≤ 25
Heat Ageing (110 °C, 240 h)	IEC 60811		
Δ Strength		%	≤ 30
Tear Strength	ASTM D 1938	N/mm	20
Hot Pressure (Test at 110 °C, 6 h)	IEC 60811	%	<10
Cold Flex	ISO 458-2	°C	-40±2
Cold Bend (-40°C ±2 °C)	IEC 60811-504	-	No Cracks
Cold Impact (-40°C ±2 °C)	IEC 60811-506	-	Pass
Chemical Properties			
Halogen Content	EN 60754-1	%	<0,5 Max.
pH	IEC 60754-2	-	>4.3
Conductivity	IEC 60754-2	μS/mm	<10
Water Absorption (70°C, 168 h)	IEC 60811-402	mg/cm ²	<1
LOI	ISO 4589	%	26
Smoke Density	EN-61034	% transmittance	>80
Other Properties			
Dielectric Strength	IEC 60243	kV/mm	> 10
Oil IRM 902 oil (70 °C, 4 h)	IEC 60811-404		
Δ Strength		%	10
Δ Elongation		%	9

Processing:

Extrusion Temperatures: 120°C–130°C–140°C–150°C–160°C

Packaging:

It is packaged as 1000 kg in octabin.

Storage&Handling:

KK-SICO683 should be stored in a manner that avoids direct exposure to sunlight and heat (T<30°C). This compound should be used within 6 months after its production date. After this time it's necessary to dry the material before extrusion.

Product Information:

KK-SICO483 is a thermoplastic, halogen free flame retardant natural jacketing compound with high mechanical strength, durability, UV resistance and excellent extrusion properties.

Typical features of the KK-SICO483 product,

- Excellent processing properties
- No need for pre-drying
- High mechanical strength and toughness
- Low water permeability
- No need for pre-drying
- UV resistance

The properties of this compound comply with the requirements of,

EC 60502 Part 1 ST3; EN 50363-8 TM7

BS 7211; EN 50288

VDE 0250 Teil 215; BS 7655 LTS1-4

ASTM D 1248 Type I, Class A, Category 4

VDE 0207 Teil 24 (HM2, HM4 & HM5)

EN 50290-2-27; BS 7655 LTS1-4

Product Data:

Property	Test Method	Unit	Value
Physical Properties			
Melt Flow Rate (190°C-2,16 kg)	ASTM D 1238	gr/10 min	0,7
Specific Weight (23°C)	ASTM D-792	gr/cm ³	1,15
Hardness	ISO 868	Shore D	48
Mechanical Properties			
Tensile Strength	ISO 527	Mpa	16
Elongation at Break	ISO 527	%	600
Heat Ageing (100 °C, 168 h)	IEC 60811		
Δ Strength		%	≤ 20
UV Ageing	IEC 60811		
Δ Strength		%	≤ 20
Tear Strength	ASTM D 1938	N/mm	20
Hot Pressure (Test at 90 °C, 4 h)	IEC 60811-508	%	<20
Cold Flex	ISO 458-2	°C	-40±2
Cold Bend (-40°C ±2 °C)	IEC 60811-504	-	No Cracks
Cold Impact (-40°C ±2 °C)	IEC 60811-506	-	Pass
Chemical Properties			
Halogen Content	EN 60754-1	%	<0,5 Max.
pH	IEC 60754-2	-	>4.3
Conductivity	IEC 60754-2	μS/mm	<10
Water Absorption (70°C, 168 h)	IEC 60811-402	mg/cm ²	<1
LOI	ISO 4589	%	28
Smoke Density	EN-61034	% transmittance	>80
Other Properties			
Dielectric Strength	IEC 60243	kV/mm	> 20
DC Volume Resistivity	IEC 60093	PΩcm	45
Oil IRM 902 oil (70 °C, 4 h)	IEC 60811-404		
Δ Strength		%	10
Δ Elongation		%	9

Processing:

Extrusion Temperatures: 120°C–130°C–140°C–150°C–160°C

Packaging: It is packaged as 1000 kg in octabin.

Storage&Handling:

KK-SICO483 should be stored in a manner that avoids direct exposure to sunlight and heat (T<30°C). This compound should be used within 6 months after its production date. After this time it's necessary to dry the material before extrusion.

Product Information:

KK-SICO682 is a thermoplastic, halogen free flame retardant black jacketing compound with high mechanical strength, durability, UV resistance and excellent extrusion properties.

KK-SICO682, contains 2.5% well dispersed furnace black of nominal particle size less than 25 nanometres in order to ensure excellent weathering resistance. The principle feature of this compound is the high physical strength and toughness. It can be used in areas sensitive to smoke or corrosive and toxic combustion products.

The properties of this compound comply with the requirements of,

VDE 0207 Teil 24 (HM2, HM4 & HM5)

HD 632 S1; ST3; ST7, HD 620 S1 DMZ2

BS 7655 LTS1-4, HD 620 S2 DMZ 3-5

HD 603 S1 DMO 1, EN 50363-8 TM7

IEC 60502 Part 1; Type ST3; ST7

EN 50290-2-27, BS 7655 LTS1-4

Product Data:

Property	Test Method	Unit	Value
Physical Properties			
Melt Flow Rate (190°C-2,16 kg)	ASTM D 1238	gr/10 min	0,4
Specific Weight (23°C)	ASTM D-792	gr/cm ³	1,22
Hardness	ISO 868	Shore D	54
Carbon Black Dispersion	ISO 18553	-	2,5
Mechanical Properties			
Tensile Strength	ISO 527	Mpa	14
Elongation at Break	ISO 527	%	500
Heat Ageing (110 °C, 240 h)	IEC 60811		
Δ Strength		%	≤ 25
Δ Elongation		%	≤ 25
Tear Strength	ASTM D 1938	N/mm	20
Hot Pressure (Test at 110 °C, 6 h)	IEC 60811	%	<10
Cold Flex	ISO 458-2	°C	-40±2
Cold Bend (-40°C ±2 °C)	IEC 60811-504	-	No Cracks
Cold Impact (-40°C ±2 °C)	IEC 60811-506	-	Pass
Chemical Properties			
Halogen Content	EN 60754-1	%	<0,5 Max.
pH	IEC 60754-2	-	>4.3
Conductivity	IEC 60754-2	μS/mm	<10
Water Absorption (70°C, 168 h)	IEC 60811-402	mg/cm ²	<1
LOI	ISO 4589	%	26
Smoke Density	EN-61034	% transmittance	>80
Other Properties			
Volume Resistivity 20 °C	ASTM D257	PΩ.cm	17
Dielectric Strength	IEC 60243	kV/mm	> 10
Oil IRM 902 oil (70 °C, 4 h)	IEC 60811-404		
Δ Strength		%	10
Δ Elongation		%	9

Processing:

Extrusion Temperatures: 120°C–130°C–140°C–150°C–160°C

Packaging:

It is packaged as 1000 kg in octabin.

Storage&Handling:

KK-SICO682 should be stored in a manner that avoids direct exposure to sunlight and heat (T<30°C). This compound should be used within 6 months after its production date. After this time it's necessary to dry the material before extrusion.

Product Information:

KK-SICO482 is a thermoplastic, halogen free flame retardant natural insulation compound with high mechanical strength, durability, UV resistance and excellent extrusion properties. 70°C rated insulation for building wires.

Typical features of the KK-SICO482 product,

- Excellent processing properties
- No need for pre-drying
- High mechanical strength and toughness
- Low water permeability
- No need for pre-drying
- UV resistance

The properties of this compound comply with the requirements of,

ASTM D 1248 Type I, Class A, Category 4

ISO 1872-PE KGHN-23D006

EN 50290-2-26

VDE 0207 Teil 23 (HM2)

EN 50363-7 T16 & T17

Product Data:

Property	Test Method	Unit	Value
Physical Properties			
Melt Flow Rate (190°C-2,16 kg)	ASTM D 1238	gr/10 min	0,9
Specific Weight (23°C)	ASTM D-792	gr/cm ³	1,15
Hardness	ISO 868	Shore D	42
Mechanical Properties			
Tensile Strength	ISO 527	Mpa	15
Elongation at Break	ISO 527	%	550
Heat Ageing (100 °C, 240 h)	IEC 60811		
Δ Strength		%	≤ 20
UV Ageing	IEC 60811		
Brittleness temperature	ISO 974	°C	< -60
Δ Strength		%	≤ 20
Tear Strength	ASTM D 1938	N/mm	15
Hot Pressure (Test at 90 °C, 4 h)	IEC 60811-508	%	<50
Cold Flex	ISO 458-2	°C	-40±2
Cold Bend (-40°C ±2 °C)	IEC 60811-504	-	No Cracks
Cold Impact (-40°C ±2 °C)	IEC 60811-506	-	Pass
Chemical Properties			
Halogen Content	EN 60754-1	%	<0,5 Max.
pH	IEC 60754-2	-	>4.3
Conductivity	IEC 60754-2	μS/mm	<10
Water Absorption (70°C, 168 h)	IEC 60811-402	mg/cm ²	<1
LOI	ISO 4589	%	28
Smoke Density	EN-61034	% transmittance	>80
Other Properties			
DC Volume Resistivity	IEC 60093	POhm.cm	10
Dielectric Strength		kV/mm	> 20
Oil IRM 902 oil (70 °C, 4 h)	IEC 60811-404		
Δ Strength		%	10
Δ Elongation		%	9

Processing:

Extrusion Temperatures: 120°C–130°C–140°C–150°C–160°C

Packaging: It is packaged as 1000 kg in octabin.

Storage&Handling:

KK-SICO482 should be stored in a manner that avoids direct exposure to sunlight and heat (T<30°C). This compound should be used within 6 months after its production date. After this time it's necessary to dry the material before extrusion.

“We sign your cable”



HFFR BEDDING COMPOUNDS

A circular logo consisting of a white outer ring and a black inner circle. The word "KABKOM" is written in white, bold, sans-serif capital letters across the center of the black circle.

KABKOM



Product Information:

HF-B25 is halogen free bedding compound based on polyolefin resin. This compound is easy to process, increase the overall production rate, maintain good mechanical properties and provides better surface quality. HF-B25 is designed only for tandem processing to prevent sticking to XLPE insulation without any talc usage.

Product Data:

Property	Test Method	Unit	Value
Physical Properties			
Process Type	-	-	Tandem
Melt Flow Rate (190°C-5 kg)	ASTM 1238	gr/10 min	70±15
Specific Weight (23°C)	ASTM D-792	gr/cm ³	1,90±0,05
Moisture Content	Internal Method (110°C)	%	<0,1
Chemical Properties			
Halogen Content	EN 60754-1	%	<0,5 Max.

Special Features:

- Excellent processing properties
- Low smoke and reduced toxic or corrosive gas emissions
- Processability on most HFFR/PE extrusion equipment

Processing:

Extrusion Temperatures: 90°C – 100°C – 110°C – 120°C

Packaging:

It is packaged as 1250 kg in bigbag.

Storage&Handling:

HF-B25 should be stored in a manner that avoids direct exposure to sunlight and heat (T<30°C). This compound should be used within 6 months after its production date. After this time it's necessary to dry the material before extrusion.

Product Information:

HF-D3 is halogen free flame retardant bedding compound based on polyolefine resin. This compound is easy to process, increase the overall production rate, maintain good mechanical properties and provides better surface quality. It can be processed without any need co-extrusion, high temperature level at the extruder and type of the screw.

Product Data:

Property	Test Method	Unit	Value
Physical Properties			
Process Type	-	-	Flexible
Melt Flow Rate (150°C-21,6 kg)	ASTM D 1238	gr/10 min	90±5
Specific Weight (23°C)	ASTM D-792	gr/cm ³	1,69±0,02
Mechanical Properties			
Tensile Strength	ISO 527	Mpa	3
Elongation at Break	ISO 527	%	350
LOI	ISO 4589	%	32
Chemical Properties			
Halogen Content	EN 60754-1	%	<0,5 Max.

Special Features:

- Excellent processing properties
- Superb system ageing compatibility
- Low smoke and reduced toxic or corrosive gas emissions
- Low water permeability
- Processability on most HFFR/PE extrusion equipment

Processing:

Extrusion Temperatures: 120°C – 130°C – 135°C – 140°C – 145°C

Packaging:

It is packaged as 1250 kg in bigbag or octabin.

Storage&Handling:

HF-D3 should be stored in a manner that avoids direct exposure to sunlight and heat (T<30°C). This compound should be used within 6 months after its production date. After this time it's necessary to dry the material before extrusion.

Product Information:

HF-D3S is halogen free flame retardant bedding compound based on polyolefine resin. This compound is easy to process, increase the overall production rate, maintain good mechanical properties and provides better surface quality. It can be processed without any need co-extrusion, high temperature level at the extruder and type of the screw.

Product Data:

Property	Test Method	Unit	Value
Physical Properties			
Process Type	-	-	Flexible
Color	-	-	RAL 9005
Melt Flow Rate (150°C-21,6 kg)	ASTM D 1238	gr/10 min	90±8
Specific Weight (23°C)	ASTM D-792	gr/cm ³	1,68±0,03
Mechanical Properties			
Tensile Strength	ISO 527	Mpa	3
Elongation at Break	ISO 527	%	330
LOI	ISO 4589	%	31
Chemical Properties			
Halogen Content	EN 50267-2-1	%	<0,5 Max.

Special Features:

- Excellent processing properties
- Superb system ageing compatibility
- Low smoke and reduced toxic or corrosive gas emissions
- Low water permeability
- Processability on most HFFR/PE extrusion equipment

Processing:

Extrusion Temperatures: 120°C – 130°C – 135°C – 140°C – 145°C

Packaging:

It is packaged as 1250 kg in bigbag or octabin.

Storage&Handling:

HF-D3S should be stored in a manner that avoids direct exposure to sunlight and heat (T<30°C). This compound should be used within 6 months after its production date. After this time it's necessary to dry the material before extrusion.

Product Information:

HF-EPM08 is halogen free flame retardant bedding compound based on EPDM resin. This compound is easy to process, increase the overall production rate, maintain good mechanical properties and provides better surface quality. It can be processed without any need co-extrusion, low temperature level at the extruder and type of the screw.

Product Data:

Property	Test Method	Unit	Value
Physical Properties			
Process Type	-	-	Flexible
Resin	-	-	EPDM
Melt Flow Rate (150°C-21,6 kg)	ASTM D 1238	gr/10 min	80±5
Specific Weight (23°C)	ASTM D-792	gr/cm ³	1,81±0,05
Mechanical Properties			
LOI	ISO 4589	%	>55
Chemical Properties			
Halogen Content	EN 60754-1	%	0

Special Features:

- Excellent processing properties
- Low smoke and reduced toxic or corrosive gas emissions
- Processability on most HFFR/Rubber/PE extrusion equipment

Processing:

Extrusion Temperatures: 80°C–90°C–100°C–105°C–110°C

Packaging:

It is packaged as 25 kg PE bags on 1250 kg pallets.

Storage&Handling:

HF-EPM08 should be stored in a manner that avoids direct exposure to sunlight and heat (T<30°C). This compound should be used within 6 months after its production date. After this time it's necessary to dry the material before extrusion.

Product Information:

HF-EPR is halogen free bedding compound based on EPDM resin. HF-EPR is bedding compound for PVC insulated and coated cable. This compound is easy to process, increase the overall production rate, maintain good mechanical properties and provides better surface quality. It can be processed without any need co-extrusion, high temperature level at the extruder and type of the screw. It is designed for prevent sticking between PVC insulating and PVC jacketing.

Product Data:

Property	Test Method	Unit	Value
Physical Properties			
Process Type	-	-	Tandem
Resin	-	-	EPDM
Melt Flow Rate (150°C-21,6 kg)	ASTM D 1238	gr/10 min	200±15
Specific Weight (23°C)	ASTM D-792	gr/cm ³	1,90±0,05
Chemical Properties			
Halogen Content	EN 50267-2-1	%	<0,5 Max.

Special Features:

- Excellent processing properties
- Low smoke and reduced toxic or corrosive gas emissions
- Processability on most HFFR/PE extrusion equipment

Processing:

Extrusion Temperatures: 80°C – 80°C – 80°C – 90°C – 90°C

Packaging:

It is packaged as 1250 kg in bigbag.

Storage&Handling:

HF-EPR should be stored in a manner that avoids direct exposure to sunlight and heat (T<30°C). This compound should be used within 6 months after its production date. After this time it's necessary to dry the material before extrusion.

Product Information:

HF-PE75 is halogen free bedding compound based on polyolefin resin. This compound is easy to process, increase the overall production rate, maintain good mechanical properties and provides better surface quality. HF-PE75 is designed only for tandem processing to prevent sticking to XLPE insulation without any talc usage.

Product Data:

Property	Test Method	Unit	Value
Physical Properties			
Process Type	-	-	Tandem
Melt Flow Rate (150°C-21,6 kg)	ASTM D 1238	gr/10 min	120±20
Specific Weight (23°C)	ASTM D-792	gr/cm ³	1,98±0,02
Moisture Content	Internal Method (110°C)	%	≤0,1
Chemical Properties			
Halogen Content	EN 60754-1	%	<0,5 Max.

Special Features:

- Excellent processing properties
- Low smoke and reduced toxic or corrosive gas emissions
- Processability on most HFFR/PE extrusion equipment

Processing:

Extrusion Temperatures: 90°C – 100°C – 110°C – 120°C

Packaging:

It is packaged as 25 kg PE bags on 1250 kg pallets.

Storage&Handling:

HF-PE75 should be stored in a manner that avoids direct exposure to sunlight and heat (T<30°C). This compound should be used within 6 months after its production date. After this time it's necessary to dry the material before extrusion.

Product Information:

HFFR-76B2 is halogen free flame retardant bedding compound based on Polyolefin resin. This compound is easy to process, increase the overall production rate, maintain good mechanical properties and provides better surface quality. It can be processed without any need co-extrusion, high temperature level at the extruder and type of the screw. HFFR-76B2 is flexible and durable also usable for CPR applications.

Product Data:

Property	Test Method	Unit	Value
Physical Properties			
Process Type	-	-	Flexible
Melt Flow Rate (150°C-21,6 kg)	ASTM D 1238	gr/10 min	100±10
Specific Weight (23°C)	ASTM D-792	gr/cm ³	1,77±0,05
Mechanical Properties			
LOI	ISO 4589	%	>55
Chemical Properties			
Halogen Content	EN 60754-1	%	<0,5 Max.

Special Features:

- Excellent processing properties
- Low smoke and reduced toxic or corrosive gas emissions
- High LOI
- Processability on most HFFR/Rubber/PE extrusion equipment

Processing:

Extrusion Temperatures: 90°C – 90°C – 95°C – 100°C – 105°C

Packaging:

It is packaged as 1250 kg in bigbag.

Storage&Handling:

HFFR-76B2 should be stored in a manner that avoids direct exposure to sunlight and heat (T<30°C). This compound should be used within 6 months after its production date. After this time it's necessary to dry the material before extrusion.

Product Information:

HFFR-80F is halogen free flame retardant bedding compound based on Polyolefin resin. This compound is easy to process, increase the overall production rate, maintain good mechanical properties and provides better surface quality. It can be processed without any need co-extrusion, high temperature level at the extruder and type of the screw. HFFR-80F is flexible and durable also usable for CPR applications.

Product Data:

Property	Test Method	Unit	Value
Physical Properties			
Process Type	-	-	Flexible
Melt Flow Rate (150°C-21,6 kg)	ASTM D 1238	gr/10 min	70±10
Specific Weight (23°C)	ASTM D-792	gr/cm ³	1,82±0,03
Chemical Properties			
Halogen Content	EN 60754-1	%	<0,5 Max.
LOI	ISO 4589	%	60

Special Features:

- Excellent processing properties
- Low smoke and reduced toxic or corrosive gas emissions
- High LOI
- Processability on most HFFR/Rubber/PE extrusion equipment

Processing:

Extrusion Temperatures: 65°C – 70°C – 75°C – 75°C – 80°C– 85°C– 85°C

Packaging:

It is packaged as 1250 kg in bigbag.

Storage&Handling:

HFFR-80F should be stored in a manner that avoids direct exposure to sunlight and heat (T<30°C). This compound should be used within 6 months after its production date. After this time it's necessary to dry the material before extrusion.

Product Information:

HFFR-85ST is halogen free flame retardant bedding compound based on polyolefine resin. This compound is easy to process, increase the overall production rate, maintain good mechanical properties and provides better surface quality. HFFR-85ST is designed only for co-extrusion or Tandem processing.

Product Data:

Property	Test Method	Unit	Value
Physical Properties			
Process Type	-	-	Co-extrusion Tandem
Melt Flow Rate (150°C-21,6 kg)	ASTM D 1238	gr/10 min	75±10
Specific Weight (23°C)	ASTM D-792	gr/cm ³	1,86±0,02
Mechanical Properties			
LOI	ISO 4589	%	67
Chemical Properties			
Halogen Content	EN 60754-1	%	<0,5 Max.

Special Features:

- Excellent processing properties
- Low smoke and reduced toxic or corrosive gas emissions
- High LOI
- Processability on most HFFR/Rubber/PE extrusion equipment

Processing:

Extrusion Temperatures: 90°C – 90°C – 95°C – 100°C – 105°C

Packaging:

It is packaged as 1250 kg in bigbag.

Storage&Handling:

HFFR-85ST should be stored in a manner that avoids direct exposure to sunlight and heat (T<30°C). This compound should be used within 6 months after its production date. After this time it's necessary to dry the material before extrusion.

Product Information:

HFFR-86B2 is halogen free flame retardant bedding compound based on Polyolefin resin. This compound is easy to process, increase the overall production rate, maintain good mechanical properties and provides better surface quality. HFFR-86B2 is designed only for co-extrusion processes and Tandem processing. Highly recommended for B2 Class CPR applications.

Product Data:

Property	Test Method	Unit	Value
Physical Properties			
Process Type	-	-	Co-extrusion Tandem
Melt Flow Rate (150°C-21,6 kg)	ASTM D 1238	gr/10 min	80±20
Specific Weight (23°C)	ASTM D-792	gr/cm ³	1,95±0,05
Moisture Content	Internal Method (110°C)	%	<0,1
Mechanical Properties			
LOI	ISO 4589	%	>72
Chemical Properties			
Halogen Content	EN 60754-1	%	Max.0,5

Special Features:

- Excellent processing properties
- Low smoke and reduced toxic or corrosive gas emissions
- High LOI
- Processability on most HFFR/PE extrusion equipment

Processing:

Extrusion Temperatures: 100°C – 110°C – 115°C – 120°C – 125°C

Packaging:

It is packaged as 1250 kg in bigbag. Different packing is possible if required.

Storage&Handling:

HFFR-86B2 should be stored in a manner that avoids direct exposure to sunlight and heat (T<30°C). This compound should be used within 6 months after its production date. After this time it's necessary to dry the material before extrusion.

Product Information:

HFFR-D3 is halogen free flame retardant bedding compound based on polyolefine resin. This compound is easy to process, increase the overall production rate, maintain good mechanical properties and provides better surface quality. It can be processed without any need co-extrusion or tandem, high temperature level at the extruder and type of the screw. This compound is flexible and durable also suitable for armoured cables.

Product Data:

Property	Test Method	Unit	Value
Physical Properties			
Process Type	-	-	Flexible
Melt Flow Rate (150°C-21,6 kg)	ASTM D 1238	gr/10 min	90±10
Specific Weight (23°C)	ASTM D-792	gr/cm ³	1,70±0,05
Mechanical Properties			
Tensile Strength	ISO 527	Mpa	3
Elongation at Break	ISO 527	%	350
LOI	ISO 4589	%	33
Chemical Properties			
Halogen Content	EN 60754-1	%	<0,5 Max.

Special Features:

- Excellent processing properties
- Low smoke and reduced toxic or corrosive gas emissions
- Processability on most HFFR/PE extrusion equipment

Processing

Extrusion Temperatures: 120°C – 130°C – 135°C – 140°C – 145°C

Packaging:

It is packaged as 1250 kg in bigbag.

Storage&Handling:

HFFR-D3 should be stored in a manner that avoids direct exposure to sunlight and heat (T<30°C). This compound should be used within 6 months after its production date. After this time it's necessary to dry the material before extrusion.

Product Information:

HFFR-D40 is halogen free flame retardant bedding compound based on polyolefine resin. This compound is easy to process, increase the overall production rate, maintain good mechanical properties and provides better surface quality. It can be processed without any need co-extrusion, high temperature level at the extruder and type of the screw. HFFR-D40 is flexible and durable also suitable for armoured cables.

Product Data:

Property	Test Method	Unit	Value
Physical Properties			
Process Type	-	-	Flexible
Melt Flow Rate (150°C-21,6 kg)	ASTM D 1238	gr/10 min	85 ± 10
Specific Weight (23°C)	ASTM D-792	gr/cm ³	1,69 ± 0,05
Mechanical Properties			
Tensile Strength	ISO 527	Mpa	4
Elongation at Break	ISO 527	%	360
LOI	ISO 4589	%	33
Chemical Properties			
Halogen Content	EN 60754-1	%	<0,5 Max.

Special Features:

- Excellent processing properties
- Low smoke and reduced toxic or corrosive gas emissions
- Processability on most HFFR/PE extrusion equipment

Processing:

Extrusion Temperatures: 120°C – 130°C – 135°C – 140°C – 145°C

Storage&Handling:

HFFR-D40 should be stored in a manner that avoids direct exposure to sunlight and heat (T<30°C). This compound should be used within 6 months after its production date. After this time it's necessary to dry the material before extrusion.

Product Information:

HFFR-PE30 is halogen free flame retardant bedding compound based on polyolefin resin. This compound is easy to process, increase the overall production rate, maintain good mechanical properties and provides better surface quality. HFFR-PE30 is designed only for tandem processing to prevent sticking to XLPE insulation without any talc usage.

Product Data:

Property	Test Method	Unit	Value
Physical Properties			
Process Type	-	-	Flexible
Melt Flow Rate (150°C- 21,6 kg)	ASTM D 1238	gr/10 min	95±25
Specific Weight (23°C)	ASTM D-792	gr/cm ³	1,92±0,04
Moisture Content	Internal Method (110°C)	%	<0,1
Chemical Properties			
Halogen Content	EN 60754-1	%	<0,5 Max.

Special Features:

- Excellent processing properties
- Low smoke and reduced toxic or corrosive gas emissions
- Processability on most HFFR/PE extrusion equipment

Processing:

Extrusion Temperatures: 90°C – 100°C – 110°C – 120°C

Packaging:

It is packaged as 1250 kg in bigbag.

Storage&Handling:

HFFR-PE30 should be stored in a manner that avoids direct exposure to sunlight and heat (T<30°C). This compound should be used within 6 months after its production date. After this time it's necessary to dry the material before extrusion.

Product Information:

HF-PE75 is halogen free bedding compound based on polyolefin resin. This compound is easy to process, increase the overall production rate, maintain good mechanical properties and provides better surface quality. HF-PE75 is designed only for tandem processing to prevent sticking to XLPE insulation without any talc usage.

Product Data:

Property	Test Method	Unit	Value
Physical Properties			
Process Type	-	-	Tandem
Melt Flow Rate (150°C-21,6 kg)	ASTM D 1238	gr/10 min	120±20
Specific Weight (23°C)	ASTM D-792	gr/cm ³	1,98±0,02
Moisture Content	Internal Method (110°C)	%	≤0,1
Chemical Properties			
Halogen Content	EN 60754-1	%	<0,5 Max.

Special Features:

- Excellent processing properties
- Low smoke and reduced toxic or corrosive gas emissions
- Processability on most HFFR/PE extrusion equipment

Processing:

Extrusion Temperatures: 90°C – 100°C – 110°C – 120°C

Packaging:

It is packaged as 25 kg PE bags on 1250 kg pallets.

Storage&Handling:

HF-PE75 should be stored in a manner that avoids direct exposure to sunlight and heat (T<30°C). This compound should be used within 6 months after its production date. After this time it's necessary to dry the material before extrusion.

Product Information:

HF-PE80 is halogen free bedding compound based on Polyolefin resin. HF-PE80 is bedding compound for XLPE insulated and coated cable. This compound is easy to process, increase the overall production rate, maintain good mechanical properties and provides better surface quality. It can be processed without any need co-extrusion, high temperature level at the extruder and type of the screw. It is designed for prevent sticking between XLPE insulation and HFFR jacketing.

Product Data:

Property	Test Method	Unit	Value
Physical Properties			
Process Type	-	-	Co-extrusion Tandem
Resin	-	-	Polyolefin
Melt Flow Rate (150°C-21,6 kg)	ASTM D 1238	gr/10 min	45±10
Specific Weight (23°C)	ASTM D-792	gr/cm ³	1,97±0,03
Chemical Properties			
Halogen Content	EN 50267-2-1	%	<0,5 Max.

Special Features:

- Excellent processing properties
- Low smoke and reduced toxic or corrosive gas emissions
- Processability on most HFFR/PE extrusion equipment

Processing:

Extrusion Temperatures: 110°C – 110°C – 120°C – 130°C – 130°C

Packaging:

It is packaged as 1250 kg in bigbag.

Storage&Handling:

HF-PE80 should be stored in a manner that avoids direct exposure to sunlight and heat (T<30°C). This compound should be used within 6 months after its production date. After this time it's necessary to dry the material before extrusion.

Product Information:

HF-RS is bedding compound for PVC insulated and coated cable. This compound is easy to process, increase the overall production rate, maintain good mechanical properties and provides better surface quality. It can be processed without any need co-extrusion, high temperature level at the extruder and type of the screw. It is designed for prevent sticking between PVC insulating and PVC jacketing.

Product Data:

Property	Test Method	Unit	Value
Physical Properties			
Process Type	-	-	Flexible/Tandem
Melt Flow Rate (150°C-21,6 kg)	ASTM D 1238	gr/10 min	125±10
Specific Weight (23°C)	ASTM D-792	gr/cm ³	1,90±0,05

Special Features:

- Excellent processing properties
- Low smoke and reduced toxic or corrosive gas emissions
- Processability on most HFFR/PE extrusion equipment

Processing:

Extrusion Temperatures: 115°C – 125°C – 130°C – 135°C – 145°C

Packaging:

It is packaged as 1250 kg in bigbag.

Storage&Handling:

HF-RS should be stored in a manner that avoids direct exposure to sunlight and heat (T<30°C). This compound should be used within 6 months after its production date. After this time it's necessary to dry the material before extrusion.

Product Information:

HF-UNT is halogen free flame retardant bedding compound based on polyolefine resin. This compound is easy to process, increase the overall production rate, maintain good mechanical properties and provides better surface quality. It can be processed without any need co-extrusion or tandem lines, high temperature level at the extruder and type of the screw. HF-UNT is flexible and durable compound, suitable for armoured cables.

Product Data:

Property	Test Method	Unit	Value
Physical Properties			
Process Type	-	-	Flexible
Melt Flow Rate (150°C-21,6 kg)	ASTM D 1238	gr/10 min	80±10
Specific Weight (23°C)	ASTM D-792	gr/cm ³	1,68±0,04
Mechanical Properties			
Tensile Strength	ISO 527	Mpa	4
Elongation at Break	ISO 527	%	320
LOI	ISO 4589	%	32
Chemical Properties			
Halogen Content	EN 60754-1	%	<0,5 Max.

Special Features:

- Excellent processing properties
- Low smoke and reduced toxic or corrosive gas emissions
- Processability on most HFFR/PE extrusion equipment

Processing:

Extrusion Temperatures: 120°C – 130°C – 135°C – 140°C – 145°C

Packaging:

It is packaged as 1250 kg in bigbag.

Storage&Handling:

HF-UNT should be stored in a manner that avoids direct exposure to sunlight and heat (T<30°C). This compound should be used within 6 months after its production date. After this time it's necessary to dry the material before extrusion.

Product Information:

PE BEDDING is bedding compound for PVC insulated and coated cable. This compound is easy to process, increase the overall production rate, maintain good mechanical properties and provides better surface quality. It can be processed without any need co-extrusion, high temperature level at the extruder and type of the screw. It is designed for prevent sticking between PVC insulating and PVC jacketing.

Product Data:

Property	Test Method	Unit	Value
Physical Properties			
Process Type	-	-	Flexible
Melt Flow Rate (150°C-21,6 kg)	ASTM D 1238	gr/10 min	125±10
Specific Weight (23°C)	ASTM D-792	gr/cm ³	1,90±0,05

Special Features:

- Excellent processing properties
- Low smoke and reduced toxic or corrosive gas emissions
- Processability on most HFFR/PE extrusion equipment

Processing:

Extrusion Temperatures: 115°C – 125°C – 130°C – 135°C – 145°C

Packaging:

It is packaged as 1250 kg in bigbag.

Storage&Handling:

PE BEDDING should be stored in a manner that avoids direct exposure to sunlight and heat (T<30°C). This compound should be used within 6 months after its production date. After this time it's necessary to dry the material before extrusion.

POLYMER COMPOUNDS



KABKOM



Product Information:

SX-6052-MB is a black medium density polyethylene jacketing compound.

SX-6052-MB is designed for jacket for energy and communication cables

The manufacturing of polymers outside the traditional MFR and density range making it possible to optimize processability, reduce shrinkage and yet provide excellent physical toughness and environmental stress crack resistance (ESCR).

SX-6052-MB contains 2.5% well-dispersed carbon black in order to ensure excellent weathering resistance.

The properties of this compound comply with the requirements,

ASTM D 1248 Type II, Class C, Category 4, Grade E8, E9, J4 DIN VDE 0818 , IEC 60502, Part 2, Type ST7, IEC 60708, IEC
ISO 1872-PE, KCHL, 33 D-006 60840, Type ST7, HD 603 S1, DMP 5, 7, 8,
HD 620 S2, Part 1, table 4B, DMP 2, 9, 10, 12, 14, 15 EN 50290-2-24 DMP 2, 5, 7, 8, 9, 10, 12, 14, 15

Product Data:

Property	Test Method	Unit	Value
Physical Properties			
Melt Flow Rate (190°C-2,16 kg)	ISO 1133-1, Method A	gr/10 min	0,8
Density (Base Resin)	ISO 1183-1, Method A	gr/cm ³	0,937
Density (Compound)	ISO 1183-1, Method A	gr/cm ³	0,949
Hardness	ISO 868	Shore D	57
Carbon Black Content	ASTM D1603	wt%	2,5
Light Absorption Coefficient	ASTM D3349	Abs/mm	400
Low Temperature Brittleness	ASTM D746	°C	<-76
Mechanical Properties			
Tensile Strength (50 mm/min)	ISO 527-2	Mpa	30
Elongation at Break (50 mm/min)	ISO 527-2	%	850
Flexural Modulus	ISO 178	MPa	720
ESCR (F ₀ , 50 °C, 10% Igepal)	IEC 60811-406	hrs	> 5000
Electrical Properties			
Dielectric Constant @ 1 MHz	EC 60243	kV/mm	20
DC Volume Resistivity	IEC 60093	PΩ.cm	10

Packaging:

It is packaged as 1250 kg in octabin.

Processing:

Extrusion Temperatures: 180 °C – 180 °C –190 °C- 190 °C – 200°C

Storage&Handling:

SX-6052-MB should be stored in a manner that avoids direct exposure to sunlight and heat (T<30°C). This compound should be used within 6 months after its production date. After this time it's necessary to dry the material before extrusion.

Product Information:

SX-6053-MB is a natural, UV stabilised, colourable, medium density polyethylene (MDPE) insulation or jacketing compound.

SX-6053-MB is designed for jacket for energy and communication cables

The manufacturing of polymers outside the traditional MFR and density range making it possible to optimize processability, reduce shrinkage and yet provide excellent physical toughness and environmental stress crack resistance (ESCR).

The properties of this compound comply with the requirements,

ASTM D 1248 Type II, Class C, Category 4, Grade E8, E9, J4 IEC 60840, Type ST7
 ISO 1872-PE, KHLN, 33 D-006 HD 603 S1, DMP 6
 IEC 60502, Part 2, Type ST7 DIN VDE 0818

Product Data:

Property	Test Method	Unit	Value
Physical Properties			
Melt Flow Rate (190°C-2,16 kg)	ISO 1133-1, Method A	gr/10 min	0,85
Specific Weight (23°C)	ISO 1183-1, Method A	gr/cm ³	0,937
Hardness,	ISO 868	Shore D	55
Light Absorption Coefficient	ASTM D3349	Abs/mm	400
Low Temperature Brittleness	ASTM D746	°C	<-76
Mechanical Properties			
Tensile Strength (50 mm/min)	ISO 527-2	Mpa	33
Elongation at Break (50 mm/min)	ISO 527-2	%	820
Flexural Modulus	ISO 178	MPa	630
ESCR (F ₀ , 50 °C, 10% Igepal)	IEC 60811-406	hrs	> 5000
Electrical Properties			
Volume Resistivity (500 V)	IEC 62631-3-1	Ohms.m	7.0E+14
RELATIVE Factor (1 MHz)	IEC 62631-2-1	-	2.31

Packaging:

It is packaged as 1250 kg in octabin.

Processing:

Extrusion Temperatures: 180°C – 180°C – 190°C – 190°C – 200°C

Storage&Handling:

SX-6053-MB should be stored in a manner that avoids direct exposure to sunlight and heat (T<30°C). This compound should be used within 6 months after its production date. After this time it's necessary to dry the material before extrusion.

Product Information:

SX-8380-HN is a UV Natural-Colourable high density polyethylene compound suitable for insulation or jacketing. It contains UV-stabilizer in order to ensure excellent UV protection. Antioxidant is added to obtain excellent long term properties.

Outstanding UV resistance, Excellent environmental stress crack resistance, Low water permeability, Oil resistance I & II, according to UL 1072.

STM D1248 Type III, Class A, Category 4, Grade E8, E9
DIN VDE 0818, BS 6234 : Type H03
ISO 1872-PE, KGHN, 45-D006

IEC 60708, EN 50290-2-23
DIN VDE 0207, 2Y11
EN 50407

Product Data:

Property	Test Method	Unit	Value
Physical Properties			
Melt Flow Rate (190°C-2,16 kg)	ASTM D1238	gr/10 min	0,90
Specific Weight (23°C)	ASTM D792	gr/cm ³	0,948
Hardness	ASTM D2240 (15sec)	Shore D	60
Melting Temperature	DSC	°C	125
Mechanical Properties			
Tensile Strength	ASTM D638/IEC 60811	N/mm ²	38
Elongation at Break	ASTM D638/IEC 60811	%	860
ESCR (F ₀ , 50°C, 10% Igepal)	ASTM D1693	h	> 5000
O.I.T at 200°C	ASTM D3895	min	> 100
Vicat Softening Temperature	ISO 306	°C	120
Hot pressure test at 110 °c	IEC 60811	%	<50
Water absorption	ASTM D570	%	≤0.01
Electrical Properties			
Dielectric Constant @ 1 MHz	ASTM D150	-	<2.3
Dissipation Factor @ 1 MHz	ASTM D150	-	<0.0006
Dissipation Factor (1 MHz)	ASTM D257	ohm cm	>10 ¹⁶

Packaging:

SX-8380-HN It is packaged as 1250 kg in octabin.

Processing:

Extrusion Temperatures: 180°C – 190°C – 200°C – 210°C – 220°C

Storage&Handling:

SX-8380-HN should be stored in a manner that avoids direct exposure to sunlight and heat (T<30°C). This compound should be used within 6 months after its production date. After this time it's necessary to dry the material before extrusion.

Product Information:

SX-8450-HB is designed for jacketing of energy and communication cables.

SX-8450-HB offers substantially reduced shrinkage which helps to maintain low signal attenuation for fibre optic communication cables and low jacket retraction for energy cables in combination with excellent mechanical and barrier properties.

SX-8450-HB offers a balance of properties giving advantages in manufacturing, installation and lifetime performance of communication and energy cables. SX-8450-HB contains 2.5% well-dispersed carbon black in order to ensure excellent weathering resistance.

The properties of this compound comply with the requirements

ASTM D 1248 Type III, Class C, Category 4, Grade E8,E9,
J4,W8,9, IEC 60708
DIN VDE 0207 Type 2YM3, ISO 1872-PE, KCHL, 45-D016
DMP 2, 5, 7, 8, 9, 10, 11, 12, 14, 15,

IEC 60794, EN 187105, DIN VDE 0818,
HD 603 S1, DMP 1, 2, 5, 7, 8,
HD 620 S2, Part 1, table 4B, DMP 2, 8-12, 14-15, 17,
HD 632 S2 ST7, IEC 60840 Type ST7,

Product Data:

Property	Test Method	Unit	Value
Physical Properties			
Melt Flow Rate (190°C-5 kg)	ASTM D1238	g/10 min	1,8
Density (Base Resin)	ASTM D1505	gr/cm ³	0,948
Density (Compound)	ASTM D1505	gr/cm ³	0,960
Hardness	ASTM D2240	Shore D	61
Carbon Black Content	ASTM D1693B	wt%	2,5
Mechanical Properties			
Tensile Strength	ASTM D638	kg/cm ²	33
Elongation at Break	ASTM D638	%	1000
Flexural Modulus	ISO 178	Mpa	950
ESCR (F ₀ , 50 °C, 10% Igepal)	ASTM D1693	hrs	> 5000
Thermal Properties			
Brittleness Temperature	ASTM D746	°C	<-90
Electrical Properties			
Volume Resistivity@ 500V	ASTM D257	Ω.cm	7.3E15
Surface resistance	Internal Method	Ω	6.3E17
Dielectric Strength	ASTM D150	kV/mm	33.3

Packaging:

It is packaged as 1250 kg in octabin.

Processing:

Extrusion Temperatures: 180°C – 190°C – 200°C – 210°C – 220°C

Storage&Handling:

SX-8450-HB should be stored in a manner that avoids direct exposure to sunlight and heat (T<30°C). This compound should be used within 6 months after its production date. After this time it's necessary to dry the material before extrusion.

Product Information:

SX-8450-LB is black linear low density polyethylene compound, designed for jacketing of energy and communication cables.

SX-8450-LB, The abrasion resistance combined with low coefficient of friction makes it ideally suitable for the jacketing of energy and communication cables.

SX-8450-LB contains 2.5% of well dispersed carbon black to provide excellent weather resistance.

The properties of this compound comply with the requirements,

ASTM D 1248 Type I, Class C, Category 4, Grade E4, E5,
J3, W2-4; ISO 1872-PE, KCHL, 23-D012
AEIC CS8; ICEA S-93-639; ANSI/ICEA S-94-649
ANSI/ICEA S-97-682; IEC 60708

IEC 60502, Part 2, Type ST3, ST7; EN 50407;
HD 632 S2, ST3, ST7; HD 603 S1, DMP 5, 7, 8
HD 620 S2, DMP 9, 10, 12, 14, 15, 17 ; ANSI/ICEA S-97-
682 ; AEIC CS8

Product Data:

Property	Test Method	Unit	Value
Physical Properties			
Melt Flow Rate (190°C-2,16 kg)	ISO 1133-1	g/10 min	0,8
Density (Base Resin)	ISO 1183-1	gr/cm ³	0,923
Density (Compound)	ISO 1183-1	gr/cm ³	0,936
Hardness	ASTM D2240	Shore D (1 s)	55
Carbon Black Content	ASTM D1693B	wt%	2,5
Mechanical Properties			
Tensile Strength	ASTM D638	kg/cm ²	30
Elongation at Break	ASTM D638	%	810
Flexural Modulus	ISO 178	Mpa	380
ESCR (F ₀ , 50 °C, 10% Igepal)	ASTM D1693	hrs	> 5000
Thermal Properties			
Brittleness Temperature	ASTM D746	°C	<-76
Electrical Properties			
DC Volume Resistivity	IEC 60093	PΩcm	10
Dielectric constant (1 MHz)	IEC 60250	-	2,5
Dielectric Strength	IEC 60243	kV/mm	> 20

Packaging:

It is packaged as 1250 kg in octabin.

Processing:

Extrusion Temperatures: 140°C – 150°C – 160°C – 170°C – 180°C

Storage&Handling:

SX-8450-LB should be stored in a manner that avoids direct exposure to sunlight and heat (T<30°C). This compound should be used within 6 months after its production date. After this time it's necessary to dry the material before extrusion.

CROSSLINKABLE COMPOUNDS



KABKOM



Product Information:

This catalyst masterbatch is made on a polyolefin matrix, with the presence of a mix of antioxidants and UV stabilizer.

Product Data:

Property	Test Method	Unit	Value
Physical Properties			
Melt Flow Rate (190°C-2,16 kg)	ASTM D 1238	gr/10 min	2,5
Specific Weight (23°C)	ASTM D-792	gr/cm ³	0,94

Packaging:

It is packaged as 2,5 kg in alumina bags.

Storage&Handling:

This compound must be stored at room temperature in closed bags. It must be consumed in 3 months from production date and if bags are opened, it must be consumed in few hours.

Product Information:

This catalyst masterbatch is made on a polyolefin matrix, with the presence of a mix of antioxidants and UV stabilizer.

Product Data:

Property	Test Method	Unit	Value
Physical Properties			
Melt Flow Rate (190°C-2,16 kg)	ASTM D 1238	gr/10 min	2,5
Specific Weight (23°C)	ASTM D-792	gr/cm ³	0,94

Packaging:

It is packaged as 2,5 kg in alumina bags.

Storage&Handling:

This compound must be stored at room temperature in closed bags. It must be consumed in 3 months from production date and if bags are opened, it must be consumed in few hours.

Product Information:

This catalyst masterbatch is made on a polyolefin matrix, with the presence of a mix of antioxidants and UV stabilizer.

Product Data:

Property	Test Method	Unit	Value
Physical Properties			
Melt Flow Rate (190°C-2,16 kg)	ASTM D 1238	gr/10 min	3
Specific Weight (23°C)	ASTM D-792	gr/cm ³	0,94

Packaging:

It is packaged as 2,5 kg in alumina bags.

Storage&Handling:

This compound must be stored at room temperature in closed bags. It must be consumed in 3 months from production date and if bags are opened, it must be consumed in few hours.

Product Information:

This catalyst masterbatch is made on a polyolefin matrix, with the presence of a mix of antioxidants and UV stabilizer.

Product Data:

Property	Test Method	Unit	Value
Physical Properties			
Melt Flow Rate (190°C-2,16 kg)	ASTM D 1238	gr/10 min	2,5
Specific Weight (23°C)	ASTM D-792	gr/cm ³	0,94

Packaging:

It is packaged as 2,5 kg in alumina bags.

Storage&Handling:

This compound must be stored at room temperature in closed bags. It must be consumed in 3 months from production date and if bags are opened, it must be consumed in few hours.

Product Information:

This catalyst masterbatch is made on a polyolefin matrix, with the presence of a mix of antioxidants and UV stabilizer.

Product Data:

Property	Test Method	Unit	Value
Physical Properties			
Melt Flow Rate (190°C-2,16 kg)	ASTM D 1238	gr/10 min	25
Specific Weight (23°C)	ASTM D-792	gr/cm ³	0,923

Packaging:

It is packaged as 2,5 kg in alumina bags.

Storage&Handling:

This compound must be stored at room temperature in closed bags. It must be consumed in 3 months from production date and if bags are opened, it must be consumed in few hours.

Product Information:

This catalyst masterbatch is made on a polyolefin matrix, with the presence of a mix of antioxidants and UV stabilizer.

Product Data:

Property	Test Method	Unit	Value
Physical Properties			
Melt Flow Rate (190°C-2,16 kg)	ASTM D 1238	gr/10 min	25
Specific Weight (23°C)	ASTM D-792	gr/cm ³	0,923

Packaging:

It is packaged as 2,5 kg in alumina bags.

Storage&Handling:

This compound must be stored at room temperature in closed bags. It must be consumed in 3 months from production date and if bags are opened, it must be consumed in few hours.

Product Information:

This catalyst masterbatch is made on a polyolefin matrix, with the presence of a mix of antioxidants and UV stabilizer.

Product Data:

Property	Test Method	Unit	Value
Physical Properties			
Melt Flow Rate (190°C-2,16 kg)	ASTM D 1238	gr/10 min	2,5
Specific Weight (23°C)	ASTM D-792	gr/cm ³	0,94

Packaging:

It is packaged as 2,5 kg in alumina bags.

Storage&Handling:

This compound must be stored at room temperature in closed bags. It must be consumed in 3 months from production date and if bags are opened, it must be consumed in few hours.

Product Information:

This catalyst masterbatch is made on a polyolefin matrix, with the presence of a mix of antioxidants and UV stabilizer.

Product Data:

Property	Test Method	Unit	Value
Physical Properties			
Melt Flow Rate (190°C-2,16 kg)	ASTM D 1238	gr/10 min	2,5
Specific Weight (23°C)	ASTM D-792	gr/cm ³	0,94

Packaging:

It is packaged as 2,5 kg in alumina bags.

Storage&Handling:

This compound must be stored at room temperature in closed bags. It must be consumed in 3 months from production date and if bags are opened, it must be consumed in few hours.

Product Information:

This catalyst masterbatch is made on a polyolefin matrix, with the presence of a mix of antioxidants and UV stabilizer.

Product Data:

Property	Test Method	Unit	Value
Physical Properties			
Melt Flow Rate (190°C-2,16 kg)	ASTM D 1238	gr/10 min	25
Specific Weight (23°C)	ASTM D-792	gr/cm ³	0,923

Packaging:

It is packaged as 2,5 kg in alumina bags.

Storage&Handling:

This compound must be stored at room temperature in closed bags. It must be consumed in 3 months from production date and if bags are opened, it must be consumed in few hours.

Product Information:

KKX-74S is Halogen Free Flame Retardant compound which is crosslinkable with catalyst masterbatch (CAT-S/UV) by presence of heat and moisture. This compound is designed for use in photovoltaic cables.

The proper mixture should be 95% for KKK-74S and 5% for CAT-S/UV.

Crosslinking by immersion in 90°C hot water 6-8 hours; by exposure to low pressure water steam 12-16 hours. This compound convenient for EN 50618, TUV 2 PfG 1169/08.2007 standarts.

Product Data:

Property	Test Method	Unit	Value	
Physical Properties				
Melt Flow Rate (150°C-21,6 kg)	ASTM D 1238	gr/10 min	4	
Specific Weight (23°C)	ASTM D-792	gr/cm ³	1,39±0,01	
Hardness	ISO 868	Shore D	49	
Mechanical Properties				
			Thermoplastic	Thermoset
Tensile Strength	ISO 527	Mpa	15	11
Elongation at Break	ISO 527	%	350	200
Hot Set Test 200°C, 15 mins, 0.2 MPa	IEC 60811-507			
Elongation Under Load		%	<100	
Permanent Deformation		%	<5	
Hot set test 250°C, 15 mins, 0.2 MPa	IEC 60811-507			
Elongation Under load		%	<100	
Permanent Deformation		%	<5	
Heat Ageing (135 °C, 168h)	IEC 60811-401			
Δ Strength		%	+7	
Δ Elongation		%	-20	
Heat Ageing (150°C, 168h)	EN 60811-401			
Δ Strength		%	+8	
Δ Elongation		%	-22	
Hot Pressure Test at 100 °C	IEC 60811	%	<50	
Shrinkage 1h 120°C (after crosslinked)	60811-503	%	≤2	
Cold Elongation (-40°C±2°C)	IEC 60811-505	%	≤30	
Chemical Properties				
Halogen Content	EN 60754-1	%	<0,5 Max.	
pH	IEC 60754-2	-	>4.3	
Conductivity	IEC 60754-2	μS/mm	<10	
Water Absorption	IEC 60811	mg/cm ²	<5.0	
LOI	ISO 4589	%	33	
Smoke Density	EN-61034	% transmittance	>80	
Volume Resistivity 20 °C (Alternating Polarity Method)	ASTM D257 Electrodes	Ω.cm	1.10 ¹⁶	

Packaging: It is packaged as 1000 kg in octabin.

Extrusion Temperatures:

Sheath : 140°C – 145°C – 145°C – 150°C – 155°C – 160°C – 165°C

Insulating : 145°C – 145°C – 150°C – 155°C – 160 °C – 165°C – 170°C

Storage&Handling:

KKX-74S should be stored in a manner that avoids direct exposure to sunlight and heat (T<30°C). This compound should be used within 3 months after its production date.

Product Information:

KKX-90S is a Halogen Free Flame Retardant compound that can be crosslinked with catalyst masterbatch (CAT-90) in the presence of heat and moisture. It is a highly flame retardant compound. This compound is designed for use on photovoltaic H1Z2Z2-K cables.

The appropriate mix should be 97% for KKK-90S and 3% for CAT-90.

Crosslinking by immersion in 90°C hot water for 6-8 hours; By being exposed to low pressure water vapor for 12-16 hours. It complies with EN 50525-3-41, EN 50618, TUV 2 PfG 1169/08.2007 standards.

Product Data:

Property	Test Method	Unit	Value	
Physical Properties				
Melt Flow Rate (150°C-21,6 kg)	ASTM D 1238	gr/10 min	2,5	
Specific Weight (23°C)	ASTM D-792	gr/cm ³	1,46±0,01	
Hardness	ISO 868	Shore D	52	
Mechanical Properties				
			Thermoplastic	Thermoset
Tensile Strength	ISO 527	Mpa	15	12
Elongation at Break	ISO 527	%	280	190
Hot Set Test 200°C, 15 mins, 0.2 MPa	IEC 60811-507			
Elongation Under Load		%	<100	
Permanent Deformation		%	<5	
Hot set test 250°C, 15 mins, 0.2 MPa	IEC 60811-507			
Elongation Under load		%	<100	
Permanent Deformation		%	<5	
Heat Ageing (135 °C, 168h)	IEC 60811-401			
Δ Strength		%	+7	
Δ Elongation		%	-20	
Heat Ageing (150°C, 168h)	EN 60811-401			
Δ Strength		%	+8	
Δ Elongation		%	-22	
Hot Pressure Test at 100 °C	IEC 60811	%	<50	
Shrinkage 1h 120°C (after crosslinked)	60811-503	%	≤2	
Cold Elongation (-40°C±2°C)	IEC 60811-505	%	≤30	
Chemical Properties				
Halogen Content	EN 60754-1	%	<0,5 Max.	
pH	IEC 60754-2	-	>4.3	
Conductivity	IEC 60754-2	μS/mm	<10	
Water Absorption	IEC 60811	mg/cm ²	<5.0	
LOI	ISO 4589	%	33	
Smoke Density	EN-61034	% transmittance	>80	
Volume Resistivity 20 °C (Alternating Polarity)	ASTM D257 Electrodes	Ω.cm	1.10 ¹⁶	

Packaging: It is packaged as 1250 kg in octabin.

Extrusion Temperatures: 140°C – 145°C – 145°C – 150°C – 155°C – 160°C – 165°C

Storage&Handling:

KKX-90S should be stored in a manner that avoids direct exposure to sunlight and heat (T<30°C). This compound should be used within 3 months after its production date.

Product Information:

KKX-95S is a Halogen Free Flame Retardant compound that can be crosslinked with catalyst masterbatch (CAT-95) in the presence of heat and moisture. It is a highly flame retardant compound. This compound is designed for use on photovoltaic H1Z222-K cables.

The appropriate mix should be 97% for KKK-95S and 3% for CAT-95.

Crosslinking by immersion in 90°C hot water for 6-8 hours; By being exposed to low pressure water vapor for 12-16 hours. It complies with EN 50525-3-41, EN 50618, TUV 2 PfG 1169/08.2007 standards.

Product Data:

Property	Test Method	Unit	Value	
Physical Properties				
Melt Flow Rate (150°C-21,6 kg)	ASTM D 1238	gr/10 min	4,5	
Specific Weight (23°C)	ASTM D-792	gr/cm ³	1,47±0,01	
Hardness	ISO 868	Shore D	50	
Mechanical Properties				
			Thermoplastic	Thermoset
Tensile Strength	ISO 527	Mpa	15	13
Elongation at Break	ISO 527	%	280	220
Hot Set Test 200°C, 15 mins, 0.2 MPa	IEC 60811-507			
Elongation Under Load		%	<100	
Permanent Deformation		%	<5	
Hot set test 250°C, 15 mins, 0.2 MPa	IEC 60811-507			
Elongation Under load		%	<100	
Permanent Deformation		%	<5	
Heat Ageing (135 °C, 168h)	IEC 60811-401			
Δ Strength		%	+7	
Δ Elongation		%	-20	
Heat Ageing (150°C, 168h)	EN 60811-401			
Δ Strength		%	+8	
Δ Elongation		%	-22	
Hot Pressure Test at 100 °C	IEC 60811	%	<50	
Shirnkage 1h 120°C (after crosslinked)	60811-503	%	≤2	
Cold Elongation (-40°C±2°C)	IEC 60811-505	%	≤30	
Chemical Properties				
Halogen Content	EN 60754-1	%	<0,5 Max.	
pH	IEC 60754-2	-	>4.3	
Conductivity	IEC 60754-2	μS/mm	<10	
Water Absorption	IEC 60811	mg/cm ²	<5.0	
LOI	ISO 4589	%	33	
Smoke Density	EN-61034	% transmittance	>80	
Volume Resistivity 20 °C (Alternating Polarity)	ASTM D257 Electrodes	Ω.cm	1.10 ¹⁶	

Packaging: It is packaged as 1250 kg in octabin.

Extrusion Temperatures: 140°C – 145°C – 145°C – 150°C – 155°C – 160°C – 165°C

Storage&Handling:

KKX-95S should be stored in a manner that avoids direct exposure to sunlight and heat (T<30°C). This compound should be used within 3 months after its production date.

Product Information:

KKX-100S is a Halogen Free Flame Retardant compound that can be crosslinked with catalyst masterbatch (CAT-100) in the presence of heat and moisture. It is a highly flame retardant compound. This compound is designed for use on photovoltaic H1Z222-K cables.

The appropriate mix should be 97% for KKK-100S and 3% for CAT-100.

Crosslinking by immersion in 90°C hot water for 6-8 hours; By being exposed to low pressure water vapor for 12-16 hours. It complies with EN 50525-3-41, EN 50618, TUV 2 PfG 1169/08.2007 standards.

Product Data:

Property	Test Method	Unit	Value	
Physical Properties				
Melt Flow Rate (150°C-21,6 kg)	ASTM D 1238	gr/10 min	4	
Specific Weight (23°C)	ASTM D-792	gr/cm ³	1,48±0,01	
Hardness	ISO 868	Shore D	53	
Mechanical Properties				
			Thermoplastic	Thermoset
Tensile Strength	ISO 527	Mpa	14	12
Elongation at Break	ISO 527	%	250	180
Hot Set Test 200°C, 15 mins, 0.2 MPa	IEC 60811-507			
Elongation Under Load		%	<100	
Permanent Deformation		%	<5	
Hot set test 250°C, 15 mins, 0.2 MPa	IEC 60811-507			
Elongation Under load		%	<100	
Permanent Deformation		%	<5	
Heat Ageing (135 °C, 168h)	IEC 60811-401			
Δ Strength		%	+7	
Δ Elongation		%	-20	
Heat Ageing (150°C, 168h)	EN 60811-401			
Δ Strength		%	+8	
Δ Elongation		%	-22	
Hot Pressure Test at 100 °C	IEC 60811	%	<50	
Shirnkage 1h 120°C (after crosslinked)	60811-503	%	≤2	
Cold Elongation (-40°C±2°C)	IEC 60811-505	%	≤30	
Chemical Properties				
Halogen Content	EN 60754-1	%	<0,5 Max.	
pH	IEC 60754-2	-	>4.3	
Conductivity	IEC 60754-2	μS/mm	<10	
Water Absorption	IEC 60811	mg/cm ²	<5.0	
LOI	ISO 4589	%	35	
Smoke Density	EN-61034	% transmittance	>80	
Volume Resistivity 20 °C (Alternating Polarity)	ASTM D257 Electrodes	Ω.cm	1.10 ¹⁶	

Packaging: It is packaged as 1250 kg in octabin.

Extrusion Temperatures: 140°C – 145°C – 145°C – 150°C – 155°C – 160°C – 165°C

Storage&Handling:

KKX-100S should be stored in a manner that avoids direct exposure to sunlight and heat (T<30°C). This compound should be used within 3 months after its production date.

Product Information:

It is a silane grafted compound containing a flame retardant, which can be moisture curable by addition of CAT-340 catalyst masterbatch. System gases and dark smoke emission which contribute to the self-extinguishing properties of the cable without the formation of halogenidric acid, toxic and corrosive.

The proper mixture should be 95% for KKK-340 and 5% for CAT-340.

Crosslinking by immersion in 90°C hot water 6-8 hours; by exposure to low pressure water steam 12-16 hours.

This compound for EN 50264 EI110; EN 50363-5 EI5 and EI8; EN 50363-6 EM10; EN 50363-0 G10; IEC 60092/360 HF90; Cenelec HD 624.6; VDE 0266 HX11 and HXM1; VDE 0250 HI3; VDE 0207 HJ1 and HM1. standards.

Product Data:

Property	Test Method	Unit	Value
Phisical Properties			
Melt Flow Rate (150°C-21,6 kg)	ASTM D 1238	gr/10 min	4,5
Specific Weight (23°C)	ASTM D-792	gr/cm ³	1,38±0,01
Hardness	ISO 868	Shore D	47
Mechanical Properties			
			Thermoset
Tensile Strength	ISO 527	Mpa	13
Elongation at Break	ISO 527	%	260
Hot set test 250°C, 15 mins, 0.2 MPa	IEC 60811-507		
Elongation Under load		%	<100
Permanent Deformation		%	<5
Heat Ageing (135 °C, 168h)	IEC 60811-401		
Δ Strength		%	+6
Δ Elongation		%	-18
Heat Ageing (150°C, 168h)	EN 60811-401		
Δ Strength		%	+7
Δ Elongation		%	-22
Hot Pressure Test at 100 °C	IEC 60811	%	<50
Shirnkage 1h 120°C (after crosslinked)	60811-503	%	≤2
Cold Elongation (-40°C±2°C)	IEC 60811-505	%	≤30
Chemical Properties			
Halogen Content	EN 60754-1	%	<0,1 Max.
pH	IEC 60754-2	-	>4.3
Conductivity	IEC 60754-2	μS/mm	<10
Water Absorption	IEC 60811	mg/cm ²	<5.0
LOI	ISO 4589	%	32
Smoke Density	EN-61034	% trasmittance	>80
Volume Resistivity 20 °C (Alternating Polarity Method)	ASTM D257 Electrodes	Ω.cm	1.10 ¹⁶

Packaging: It is packaged as 1000 kg in octabin.

Extrusion Temperatures: 140°C – 145°C – 145°C – 150°C – 155°C – 160°C – 165°C

Storage&Handling:

KKX-340 should be stored in a manner that avoids direct exposure to sunlight and heat (T<30°C). This compound should be used within 3 months after its production date.

Product Information:

Elastomer-based compound can be moisture cured with the addition of a catalyst masterbatch (Sioplas method). It is a cable compound for insulation and jacketing.

Cable insulation with a proper mixture of KKK-420G (95 parts) and CAT-420 (5 parts) exhibits excellent thermo-oxidative stability.

KKX-420G / CAT-420 in combination meets the applicable requirements as below when processed using sound extrusion and testing procedure:

EN 50363-1 EI7 and EI8

EN 50363-0 G7; ; IEC 60502 EPR and HEPR

EN 50363-2 EM6, IEC 60502-1

BS 7655 GP4, GP5, GP6 and GP7;

EN 60092/360 EPR and HEPR Cenelec HD 603 DIH1, DIH2

and DIH3; VDE 0207/20 3GI3

Product Data:

Property	Test Method	Unit	Value
Physical Properties			
Melt Flow Rate (190°C- 5 kg)	ASTM D 1238	gr/10 min	0,8
Specific Weight (23°C)	ASTM D-792	gr/cm ³	0,915
Water absorption 24h at 100°C	EN 60811	mg/cm ²	1.00
Hardness	ISO 868	Shore D	39
Hardness	ISO 868	Shore A	85
Mechanical Properties			
Tensile Strength	EN 60811	N/mm ²	21
Elongation at Break	EN 60811	%	550
Heat Ageing (150°C, 168h)	IEC 60811-401		
Δ Strength		%	<25
Δ Elongation		%	<25
Heat Ageing (127°C, 40h)	IEC 60811-401		
Δ Strength		%	<25
Δ Elongation		%	<25
Hot Set Test (250°C,0.2 MPa)			
Elongation Under Load	IEC 60811-2-1	%	<100
Permanent Elongation After Cooling	IEC 60811-2-1	%	<10
Electrical Properties			
Volume Resistivity at 20°C	IEC 60250	Ω x cm	4.1 E+15
Insulation Resistance Constant at 20°C	IEC 60502	MΩ x km	1500
Dielectric Strength	ASTM D149	kV/mm	39

Extrusion Temperatures:

140°C – 150°C – 160°C – 170°C – 180°C – 180°C

Packaging:

KKX-420G is packaged as 1000 kg in octabin.

CAT-420 is packaged as aluminum multi-layer bags with a net content of 2,5 kg.

Storage&Handling:

KKX-420G should be stored in a manner that avoids direct exposure to sunlight and heat (T<30°C). This compound should be used within 3 months after its production date.

Product Information:

KKX-423/CAT-423 is a natural UV stabilized crosslinkable polyethylene compound that is designed for use photovoltaic cables. The proper mixture could be;

- 95% for KKK-423 (base polymer), 5% for CAT-423 (catalyst)

Crosslinking by immersion in 90°C hot water 2-6 hours; by exposure to low pressure water steam, 12-15 hours.

Properties of this compound comply with the requirements of

UL94, ASTM D 1248 Type II, Class C, Category 4, HD 603 S1,

HD 626 S1 (TIX-2, TIX-3, TIX-4, TIX-5, TIX-6, TIX-8, TIX-9), IEC 60502-1

Product Data:

Property	Test Method	Unit	Value
Physical Properties			
Melt Flow Rate (190°C- 2,16 kg) (KKX-423)	ASTM D 1238-13	gr/10 min	1
Spesific Weight (23°C) (KKX-423)	ASTM D-792	gr/cm ³	0,930
Hardness	ISO 868	Shore D	52
Mechanical Properties			
Tensile Strength	ISO 527	N/mm ²	>15
Elongation at Break	ISO 527	%	>350
Heat Ageing (135 °C, 168h)	IEC 60811-401		
Δ Strength		%	≤±30
Δ Elongation		%	≤±30
Heat Ageing (150°C, 168h)	EN 60811-401		
Δ Strength		%	≤-30
Δ Elongation		%	≤-30
Hot Set Test (200 °C, 0,2 Mpa)			
Elongation under load	IEC 60811	%	<100
Permanent elongation after cooling	IEC 60811	%	<10
Hot Set Test (250 °C, 0,2 Mpa)			
Elongation under load	IEC 60811	%	<100
Permanent elongation after cooling	IEC 60811	%	<10
Chemical Properties			
pH	IEC 60754-2	-	>4.3
Conductivity	IEC 60754-2	μS/mm	<10
Smoke Density	EN-61034	% transmittance	>80
Volume Resistivity	IEC 62631-3-1	PΩ.cm	10
Dielectric Strenght	IEC 60243	Kv/mm	>20
LOI	ISO 4589	%	31

Extrusion Temperatures:

135°C – 145°C – 155°C – 180°C – 180°C – 180°C – 180°C – 180°C – 200°C (Processing with Die Plate and dual 40 Mesh Filters)

Packaging:

KKX-423 is packaged as 1250 kg in aluminum multi-layer bags with a net content of 25 kg.

CAT-423 is packaged as aluminum multi-layer bags with a net content of 1,25 kg.

Storage&Handling:

KKX-423 should be stored in a manner that avoids direct exposure to sunlight and heat (T<30°C). This compound should be used within 3 months after its production date.

Product Information:

KKX-451/CAT-451 is a natural UV stabilized , halogen free moisture-induced crosslinkable polyethylene compound that is designed for use photovoltaic cables.

The proper mixture should be 95% for KKK-451 and 5% for CAT-451

Crosslinking by immersion in 90°C hot water 2-6 hours; by exposure to low pressure water steam, 12-15 hours. Properties of this compound comply with the requirements of EN 50363-5 EI5, EN 50618, EN 50290-2-26, BS 7870-5, IEC 60502-1

Product Data:

Property	Test Method	Unit	Value
Physical Properties			
Melt Flow Rate (150°C- 21,6 kg)	ASTM D 1238	gr/10 min	11,5
Specific Weight (23°C)	ASTM D-792	gr/cm ³	1,20
Hardness	ISO 868	Shore D	45
Mechanical Properties			
Tensile Strength	ISO 527	N/mm ²	15
Elongation at Break	ISO 527	%	550
Heat Ageing (135 °C, 168h)	IEC 60811-401		
Δ Strength		%	≤±30
Δ Elongation		%	≤±30
Heat Ageing (150°C, 168h)	EN 60811-401		
Δ Strength		%	≤-30
Δ Elongation		%	≤-30
Hot Set Test (200 °C, 0,2 Mpa)			
Elongation under load	IEC 60811	%	<100
Permanent elongation after cooling	IEC 60811	%	<10
Hot Set Test (250 °C, 0,2 Mpa)			
Elongation under load	IEC 60811	%	<100
Permanent elongation after cooling	IEC 60811	%	<10
Chemical Properties			
pH	IEC 60754-2	-	>4.3
Conductivity	IEC 60754-2	μS/mm	<10
LOI	ISO 4589	%	32
Smoke Density	EN-61034	% transmittance	>80
Volume Resistivity	IEC 62631-3-1	PΩ.cm	10
Dielectric Strenght	IEC 60243	Kv/mm	>20

Extrusion Temperatures:

120°C – 125°C – 130°C – 135°C – 140 °C – 145°C – 150°C

Packaging:

KKX-451 is packaged as 1000 kg in aluminum multi-layer bags with a net content of 20 kg.

CAT-451 is packaged as aluminum multi-layer bags with a net content of 4 kg.

Storage&Handling:

KKX-451 should be stored in a manner that avoids direct exposure to sunlight and heat (T<30°C). This compound should be used within 3 months after its production date.

Product Information:

KKX-XLPE/CAT-XL is a silane crosslinkable natural compound system designed for insulation of low voltage energy cables. KKK-XLPE / CAT-XL is designed for Insulation of low voltage energy cables, range up to 6 kV.

KKX-XLPE is a low density polyethylene, copolymerised with vinyl silane. CAT-XL is an ambient crosslinking catalyst masterbatch specially designed to be used. The system is highly active and crosslinks quickly at in sauna or in hot water.

Cable insulation with a proper mixture of KKK-XLPE (95 parts) and CAT-XL (5 parts) exhibits excellent thermo-oxidative stability. The combination is suitable for both copper and aluminum conductors. If the insulation is designed to meet the thermo-oxidative ageing demand required by IEC 60502 at 150°C in contact with copper, the addition of 9 parts KKK-XLPE to CAT-XL is recommended.

KKX-XLPE / CAT-XL in combination meets the applicable requirements as below when processed using sound extrusion and testing procedure:

ASTM D 1248 Type I, Class A, Category 4
 HD 603 S1
 HD 604 S1, IEC 60502-1

NEMA WC 70/ ICEA S-100-685
 NEMA WC 71/ ICEA S-96-659
 EN 50290-2-29

Product Data:

Property	Test Method	Unit	Value
Physical Properties			
Melt Flow Rate (190°C- 2,16 kg)	ASTM D 1238-13	gr/10 min	0,9
Specific Weight (23°C)	ASTM D-792	gr/cm ³	0,923
Hardness	ISO 868	Shore D	46
Mechanical Properties			
Tensile Strength	ISO 527	N/mm ²	20
Elongation at Break	ISO 527	%	650
Heat Ageing (135°C, 240h)	IEC 60811-401		
Δ Strength		%	<25
Δ Elongation		%	<25
Hot Set Test (200°C,0.2 MPa)			
Elongation Under Load	IEC 60811-2-1	%	<100
Permanent Elongation After Cooling	IEC 60811-2-1	%	<10
Environmental Stress Crack Resistance (50 °C, Igepal 10%, F20)	IEC 60811-406	h	> 96
Electrical Properties			
Dielectric constant (50 Hz)	IEC 60250	-	< 2,3
DC Volume Resistivity	IEC 60093	PΩcm	> 10
Dielectric Strength	IEC 60243	kV/mm	> 22

Extrusion Temperatures:

135°C – 145°C – 155°C – 180°C – 180°C – 180°C – 180°C – 180°C – 200°C

Packaging:

KKX-XLPE is packaged as 1000 kg in octabin.

CAT-XL is packaged as aluminum multi-layer bags with a net content of 2,5 kg.

Storage&Handling:

KKX-XLPE should be stored in a manner that avoids direct exposure to sunlight and heat (T<30°C). This compound should be used within 3 months after its production date.

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