



Quality, Inside and Out



PRODUCT BROCHURE

Muna Noor Manufacturing & Trading LLC.
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Factories in Rusayl and Sohar
Retail Outlets
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OUR STORY

Muna Noor was founded in 1975 as one of the first pipe manufacturers in the Sultanate. It has grown today into the leading manufacturer of uPVC and PE pipes and fittings with 3 manufacturing facilities and retail outlets throughout the Sultanate.

Muna Noor has found success throughout the years by not only manufacturing pipes, but by creating partnerships with its diverse customer base where Muna Noor products are tailor made to fit the needs of any project or requirement, we are proud that industry leaders trust Muna Noor for their world class technical support and guidance.

Employing highly technical and skilled workforce, Muna Noor is able to advise of product suitability and compatibility for fluid conveyance in all facets of Municipal, Industrial and Domestic Applications.

Our aim is provide solutions to exceed client expectations and collaborate on new and exciting projects for all our stakeholders.

Muna Noor became ISO 9001 certified company in 1995 as a means of highlighting to the local economy Muna Noors commitment as a Quality Local Manufacturer, the devotion to quality has allowed Muna Noor to grow into the leading plastic pipe producer in the region serving a wide customer base of individual home owners to the Oil and Gas Industry.

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Sectors Served

Muna Noor can offer unique pipe solutions for modern, unconventional and economic pipe laying applications and serves the following sectors:

- ⊗ Dredging
- ⊗ Desalination
- ⊗ Water and Sewage Treatment
- ⊗ Irrigation
- ⊗ Oil and Gas
- ⊗ Telecoms
- ⊗ Industrial Mining
- ⊗ Construction
- ⊗ Infrastructural sector

- ⊗ uPVC & HDPE pipes & fittings
- ⊗ Multilayer HDPE pipes
- ⊗ Double Wall Corrugated pipes
- ⊗ Roto-Moulding
- ⊗ Cable Ducting
- ⊗ HDPE Jacket Pipe
- ⊗ Pipe Lining
- ⊗ DI Pipes & Fittings
- ⊗ Geotextile & Geogrids
- ⊗ PPR Pipes and Fittings

Products and Services

Services and Locations

- ⊗ The Head Office and PE manufacturing plant is located on Road 4D of the Rusayl Industrial Estate, which houses the majority of the Management Team.
- ⊗ All Muna Noor uPVC pipes originate at our PVC manufacturing plant on Road No.7. PVC pipe was the first product for Muna Noor in 1975, and this factory is the oldest in the Muna Noor portfolio.
- ⊗ Muna Noor Plastic Industries (MNPI) is the newest factory for Muna Noor and is located in the Sohar Industrial Estate. It has the equipment and machines to produce a number of the bespoke products in the catalogue, including 3 layer pipes, rotoling and corrugated pipe and duct.
- ⊗ Muna Noor has a centralized warehouse at Road No15 in Rusayl, and has a number of retail outlets throughout the sultanate.



PE piping Systems

Muna Noor's polyethylene pipe (PE) factories in Rusayl and Sohar operate at a full capacity of 20,000 MT annually and were designed under the technical collaboration with Wavin Overseas BV, The Netherlands. The partnership with Wavin has helped the Muna Noor in acquiring world class technology and expertise in the manufacture of polyethylene pipe systems.

Scan for PE Pipe
Technical Details



Advantages of Polyethylene Pipe

Flexible

Can bend to meet undulations and gradient changes in above and below ground applications.

Abrasion Resistant and Low Friction

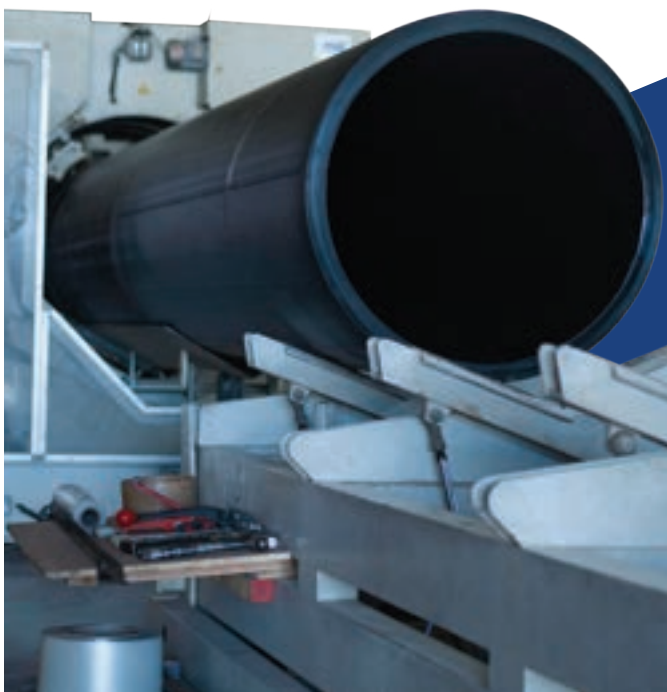
- ✧ Non-corrosive
- Maintains smooth bore
- Limited deterioration in hydraulic performance
- ✧ Self-restrained joints
- ✧ Leak proof system

Light weight

- ✧ Reduced handling and transportation costs
- ✧ High impact resistance

Low installation cost

- ✧ Can be welded above ground
- ✧ Trenchless applications
- ✧ Negligible maintenance cost
- ✧ Long-term service life
- ✧ PE Pipes have a guaranteed service life of 50 years



Served industries

Historically, PE pipes have been used for the pressurized supply of potable water; however Muna Noor supplies PE pipes to a number of different industries:

- ✧ Supply of Potable Water
- ✧ Liner Pipes for Oil and Gas
- ✧ Electrical & Telecoms Ducting
- ✧ Slurry Pipes
- ✧ Irrigation Systems
- ✧ Non Pressure applications
- ✧ AC Ducting

Standards, Sizes and Pressure Rating

Muna Noor Pipes are manufactured in accordance with the following standards:

01	ISO 4427 / BS EN 1220	Water Supply
02	DIN 8074 / EN 13244	General Applications
03	ISO 4437/ EN 1555-2	Gaseous Fuel Supply
04	API 15 LE/ ERO 43-15/	Liner Pipes DEP 31.40.30.34-Gen
05	NEMA TC/ BS EN 50086	Electrical and Telecom Duct



PE Pipes can be manufactured from

20mm - 1200mm

Pressure Ranges

6 bar - 25 bar*

(see technical guide for more details)



PE Welding Services

Muna Noor employs a team of trained and certified PE welders for joining PE Pipes and Fittings at the installation or project site

Joining Techniques

◆ Mechanical Joints

- ◆ Compression Fittings
- ◆ Flanged Joints

◆ Fusion Welded Joints

- ◆ Butt Fusion
- ◆ Electrofusion

Partners for valves and fittings:



Multilayer and PE RC Pipe Systems

Scan for PE RC pipe systems product Technical Details



Multi-Layer HDPE and PE100-RC is the answer to stress cracking in PE pipelines due to point loading or other extreme applications. The innovative and robust PE-100RC material has characteristics to reduce impact of point loads and surface scratches on the overall performance of the piping system.

Muna Noor has the ability to manufacture PE RC and 3 layer pipes in sizes from:

280mm - 1200mm

Pressure Rating: 9 Bar - 25 Bar



Highly Customizable

3 layer pipes are a highly customized product, each layer can be manufactured to the thickness of the customer requirement and application design. Layers can also be produced in different colors for different applications.

Outer Layer	Middle Layer	Inner Layer	Application
PE RC	PE 100	PE 100	Unbedded or rocky applications
PE 100	PE 100	PE RC	Slurry or dregging materials
PE RC	PE RC	PE RC	Extreme applications

Multi-Layer HDPE pipe is a co-extruded three layer pipe.

◆ PE 100 ◆ PE-100RC

The resistance to crack offered by PE 100-RC materials is approximately ten times the resistance of conventional PE 100 materials.

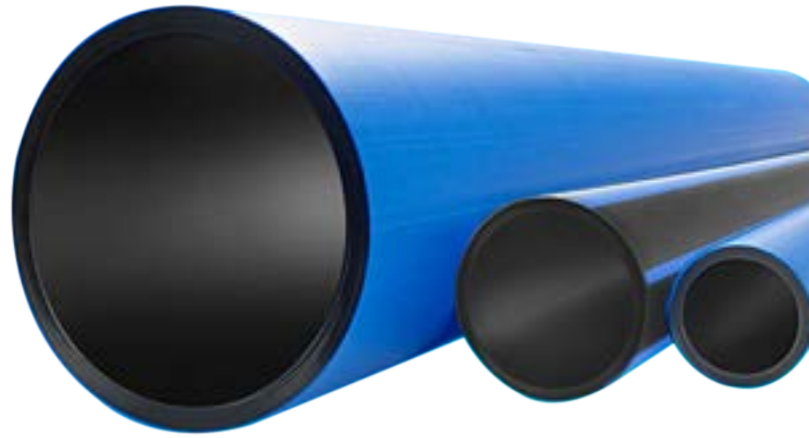
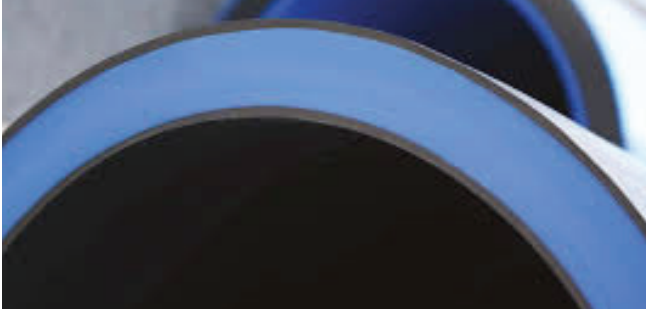


Multilayer and PE RC Pipe Systems

PE RC:

a material and pressure pipe which the service life is not effected by outside damage (scoring and point loads).

Point loads are an increasing danger when new installation techniques (e.g. trenchless applications and installations without sand embedding) were introduced and external stress on the pipe were increased. PE RC solves this problem.



Features and Benefits:

◆ Trenchless Installation:

- ◆ PE RC products can be installed with material from excavated trenches, reducing the cost of normal bedding materials.
- ◆ A for stony and rocky environments found in the GCC and MENA region.

◆ Horizontal Drilling:

- ◆ PE RC material can be used for horizontal drilling applications, without fear of surface scratches affecting the performance of the pipe.

◆ Mining:

- ◆ An inner layer of PE-RC material can withstand the tough applications of moving mining and slurry fluids.

◆ Point Loads:

- ◆ PE-RC material will withstand point loads and is designed to withstand cracking forces.

◆ 3 Layer Technology:

- ◆ PE-RC material can be used on any layer of the pipe and bonded with PE material, utilizing the advantages of PE-RC while retaining the cost effective performance of PE-100.
- ◆ 3 layers are fully integrated and cannot be separated mechanically

◆ PE LS Material:

- ◆ PE 100 Low Sag (LS) Material is a special formula of PE 100 material that allows for the manufacture of Large Diameter of PE pipes.
- ◆ The PE LS material ensures even wall thickness distribution throughout the diameter of the pipe.

uPVC Non Pressure Piping Systems

uPVC pipes have been used for centuries in a wide variety of applications from conduit and home plumbing networks to high pressure applications. OmanPlast (™) piping systems comply with all major standards and offer architects and plumbers a wide range of solutions due to the fully comprehensive piping systems.

Scan for uPVC non pressure product Technical Details



Waste Pipe Systems

Waste pipes play a crucial role in maintaining hygiene and sanitation in buildings, as they remove dirty water and waste products from sinks, showers, and other plumbing fixtures



Fittings provided by Wavin (UK)



Made to standard : BS5255/1989
 Color : White
 Length : 4 meters
 Joints : Solvent Welds
 Sizes : 1 ¼', 1 ½' 2'

The salient features of uPVC pipes are optimally used in Muna Noor soil, waste & drainage system. Complies with all major standards, offering architects & plumbers a wide range of solutions in residential and industrial discharge system.



Soil Pipe

Soil Pipes are essential for effective wastewater management, as they provide a means of transporting sewage and other waste from toilets and drains to underground sewer systems.

Made to standard: BS EN 1329 - 1:2014

Color : Gray
 Length : 4 meters
 Joints : Solvent Weld and Rubber Ring

Size(mm)	Cut length
82 (3") (BS 4514)	4m
110	4m
160	4m
200	4m
250	4m
315	4m

Ducts and Conduits

uPVC Conduits are the best solution for sealed or exposed cable protection. Muna Noor conduits always pass the bend test for easy use during application.

uPVC Conduits are made to both international and Muna Noor Standards

Color : Black
 Length : 3 meters
 Socket : Solvent Weld
 Standard : MN & BS EN 61386

	Light and Medium Duty	Standard and Heavy Duty
19 mm	✓	✓
20 mm	✓	✓
25 mm	✓	✓
32 mm		✓
50 mm		✓

Drainage Pipe

PVC Drainage Pipe are the ubiquitous pipes in all home sewer and drainage applications, with the help of gravity, these pipes allow liquids to travel from one place to another.

Drainage Pipes are made to both the Muna Noor and International standard

Color : Orange
 Length : 6 meters
 Socket : Solvent Weld or Rubber Ring
 Standards : MN Standard, BS 1401 - 1 SN2, SN4, SN8

Inch	mm	Solvent weld	Rubber Ring
3 Inch	76 mm	✓	
4 Inch	101 mm	✓	
	110 mm		✓
6 Inch	152.4 mm	✓	
	200 mm		✓
	250 mm		✓
	315 mm		✓
	400 mm		✓

Reliability and proven service performance:

- ◆ Complete plastic system.
- ◆ Extensive range of pipes and fittings.
- ◆ Smooth bore preventing the build-up of deposits.
- ◆ Corrosion resistant allowing high flow speeds of transported liquids.
- ◆ Lightweight which makes it easy to handle and install, resulting in reduced laying costs.
- ◆ Reliable and durable, whether using the easy rubber push-fit system or solvent cement, both ensure a tight and durable connection.
- ◆ Reduced jointing effort and improved reliability.
- ◆ Muna Noor uPVC pipes and fittings are resistant to a great number of chemical agents.
- ◆ Manufactured according to EN and BS standards.



uPVC Pressure Pipe

Scan for uPVC pressure pipe Technical Details



uPVC pressure pipes and fittings are manufactured from unplasticised polyvinyl chloride polymer which is a thermoplastic material commonly used for potable water distribution, irrigation systems and sewer mains.

The high strength to weight ratio, together with exceptional resistance to corrosion makes these pipes ideal for buildings and infrastructure applications.

uPVC pressure pipes are suitable for the following applications:

- ◆ Potable water distribution systems
- ◆ Industrial process pipelines
- ◆ Pressure applications
- ◆ Effluent pipelines
- ◆ Slurry pipelines
- ◆ Irrigation and watering systems

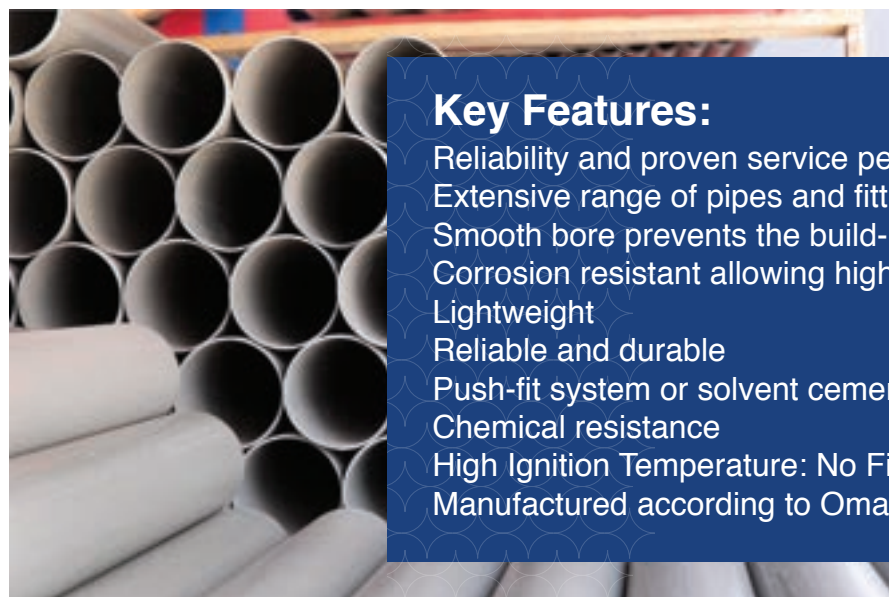


PVC Pressure Pipes are made to the following standards

BS 3505 1986
BS EN 1452-2: 2009 (metric series)
DIN 8061/8062 : 2007/2010
ATSM D 1785/2015 Schedule 40 & 80
Oman Standard OS 85/1985

Key Features:

- Reliability and proven service performance.
- Extensive range of pipes and fittings.
- Smooth bore prevents the build-up of deposits.
- Corrosion resistant allowing high flow speeds of transported liquids.
- Lightweight
- Reliable and durable
- Push-fit system or solvent cement joining process
- Chemical resistance
- High Ignition Temperature: No Fire Hazard
- Manufactured according to Omani and international standards.



Pressure and size rating chart: BS EN 3505 1986

PVC Pressure pipes are made to a number of other standards, please visit the technical brochure for those details.

Standard length: 6 meters

Color : dark gray

Socket type : Rubber ring/ Solvent weld

Normal Size	Individual outside diameter		Wall thickness PN 9 bar (Class C)		Wall thickness PN 12 bar (Class D)		Wall thickness PN 15 bar (Class E)		
	Inch	Min	Max	Min	Max	Min	Max	Min	Max
1/2		21.2	21.5	-	-	-	-	1.7	2.1
3/4		26.6	26.9	-	-	-	-	1.9	2.5
1		33.4	33.7	-	-	-	-	2.2	2.7
1 1/4		42.1	42.4	-	-	2.2	2.7	2.7	3.2
1 1/2		48.1	48.4	-	-	2.5	3.0	3.1	3.7
2		60.2	60.5	2.5	3.0	3.1	3.7	3.9	4.5
3		88.7	89.1	3.5	4.1	4.6	5.3	5.7	6.6
4		114.1	114.5	4.5	5.2	6.0	6.9	7.3	8.4
6		168.0	168.5	6.6	7.6	8.8	10.2	10.8	12.5
8		218.8	219.4	7.8	9.0	10.3	11.9	12.6	14.5
10*		272.6	273.4	9.7	11.2	12.8	14.8	15.7	18.1
12		323.4	324.3	11.5	13.3	15.2	17.5	18.7	21.6

*These are not regular sizes and not normally available in stock



Long Radius

Bends and Fabricated Standard Fittings:

Muna Noor Fabricates a number of PVC Pressure bends and fittings, the following table is a representation of our most popular fittings and the sizes, however many more can be fabricate upon special request.

Size (Inch)	90 degree long bend	22 1/2 long radius bend	45 long radius bend	11 1/4 long radius bend	Double coupler
2	✓	✓	✓	✓	
3	✓	✓	✓	✓	
4	✓	✓	✓	✓	✓
6	✓	✓	✓	✓	✓
8	✓	✓	✓	✓	✓

Double Wall Corrugated Pipe

Double Wall Corrugated Piping systems are the leading piping system for non-pressure applications due to their high wall strength, and lightweight construction. The outer wall is corrugated to reduce overall weight and increase strength, and the inner wall has a smooth for increased flow.

Scan for Double wall
corrugated pipe
Technical Details



The DWC Advantage

- ◆ High-Temperature resistance
- ◆ Perfect for drains
- ◆ Simple integrated socket connection
- ◆ Resistant to chemicals
- ◆ Low flow resistance
- ◆ Flexible
- ◆ CCTV lining for inspection
- ◆ QMS Certified to ISO9001:2008
- ◆ Approved by Abu Dhabi Sewerage Services Company
- ◆ KIWA Certified EN13476-3



Plastic pipes are suitable for



- ◆ Drainage and municipal sewer systems
- ◆ Culverts
- ◆ Ducting and ventilation
- ◆ Range: 150mm, 200mm, 250mm

DWC A premium product

DWC (Double Wall Corrugated) pipes offer numerous advantages over traditional piping systems, including improved durability, flexibility, and resistance to corrosion and abrasion. Their unique design provides extra

strength and protection, making them ideal for use in challenging environments and applications. Additionally, DWC pipes are lightweight and easy to install, which helps reduce labor and material costs. Finally, their smooth inner surface reduces friction and increases flow efficiency, resulting in better performance and reduced energy consumption.



Approvals and Standards

- ◆ MOTC Oman Approved
- ◆ Produced as standard in SN8 strength class.
- ◆ Can be fabricated in Polypropylene (PP) or Polyethylene (PE)
- ◆ Oman Broadband Approved

Telecoms Ducting

Muna Noor has recently expanded its product range and has been approved by Oman Broadband to supply the telecommunications industry with cable ducting for protecting highly delicate fiber optic cable. For this application, Muna Noor is supplying the industry with 110 – 120mm PE DWC Cable Duct.

DWC ducting is a premium unique ducting product due to the following features:

01 100m Coil Lengths

Less Joints: Faster Installation

04 Lightweight

Can be moved and transported by hand

02 Water tight joints and fittings

Prevents water damage to internal cables

05 Flexible

Can accommodate minor ground undulations

03 Bendable

No need for bend and fittings

06 Stiffness to weight ratio

Has the same weight to stiffness ratio as traditional ducting

Bundle and Micro Ducts

One of the newest products to the Muna Noor Manufacturing portfolio is micro and bundle ducting solutions; a cutting edge technology for the effective management of fiber optic cable networks.

Microduct:

The Micro duct range of products are single, small to medium diameter HDPE hollow tubes manufactured with an outer layer of HDPE, and an inner lubricated layer for effortless cable installation.

Bundle Microducts:

Bundled microducts are highly customizable arrangement of multiple micro ducts bundled & encased in a rugged, crush resistant outer PE jacket, these ducts allow for deeper fiber penetration and added flexibility for future network expansion.

We offer a complete range of cutting edge ancillary tools and equipment for complete network solutions. In partnership with global leaders, following best practices and building future proof networks.

Muna Noor Manufactures telecoms ducting products in partnership with NxtLine.



Rotolining

Roto-lining is a lining technique that allows a chemically modified polyethylene to form a bond with metals or other resins and enables vessels and pipes of a complex shape and limited access to be lined seamlessly and without difficulty, linings can be made significantly thicker than by other method. The bonded plastic can be used to line metal vessels, pipes, tanks or any other components that require corrosion protection and chemical resistance.

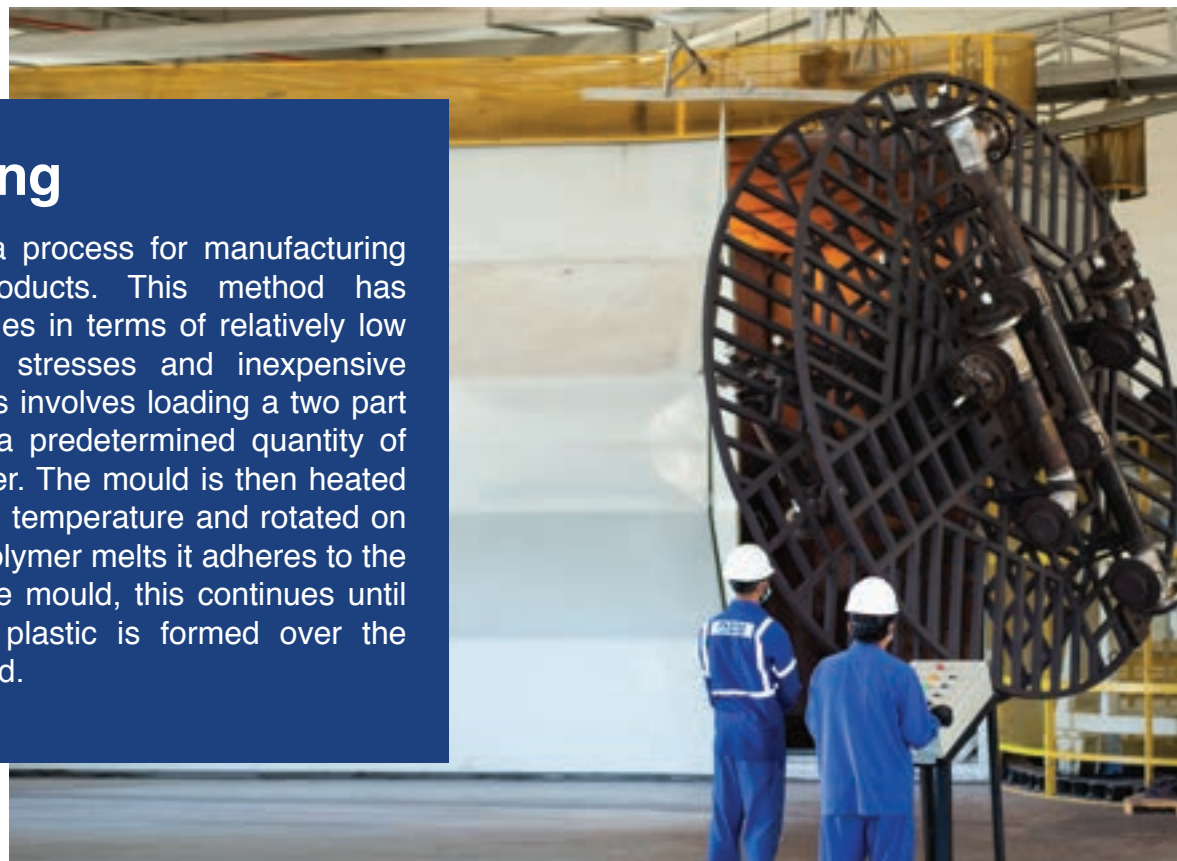
ETFE materials

In addition to PE materials, Muna Noor has approval for production of ETFE in its Rotolining operations. ETFE is highly valued for its exceptional chemical and UV resistance, as well as its ability to withstand high temperatures and mechanical stress.



Rotomolding

Roto-moulding is a process for manufacturing hollow plastic products. This method has particular advantages in terms of relatively low levels of residual stresses and inexpensive molds. The process involves loading a two part metal mould with a predetermined quantity of fine polymer powder. The mould is then heated externally to a high temperature and rotated on both axis, as the polymer melts it adheres to the inner surface of the mould, this continues until an even layer of plastic is formed over the surface of the mould.



Traded products and partners

Irrigation Systems

Muna Noor has partnered with Industry Leaders to provide the GCC with complete Irrigations Solutions for both residential and commercial projects.

Hunter®

Work smarter with
best-in-class irrigation solutions



Center Pivot
Irrigation Systems



Industrial Irrigation



Smart Irrigation
Controllers and Equipment



Wires and Cables
for Irrigation Equipment

PE, PVC and PPR Pipes and Fittings

Muna Noor has partnered with international and local manufactures to offer the complete range of associated Fittings to accompany Muna Noor's Manufactured Products



PVC Vales
and Fittings



Pipe Joining and
repair methods



PVC solvent weld
and push fit fittings



Advanced
Piping Solutions



PE
Compression Fittings



Advanced
Piping Solutions



Electrofusion and Butt Fusion
Fittings PE Fittings



Supply of PPR
Pipes and Fittings

Ductile Iron (DI) Pipes and Valves

For the supply of Ductile Iron Products to support a plastic piping system, Muna Noor is proud to offer DI valves and fittings from global leaders:



DI gate valves, check valves and butterfly valves,
universal couplings, flanged adaptors and saddles



Industrial Automation
Repair and Service



DI Vales and Fittings



Pumps and Pumping Stations



ELECTROTHERM®
ENGINEERING & PROJECT DIVISION
End to End Steel
Making Solution Provider

Geotextiles and Geomembranes

Muna Noor offers a wide range of products for ground stabilization and water containment applications,



Personal and Infrastructural protection in Military,
Security and Environmental Applications



Reliable Soil
Stabilization Products



Innovative and cost effective
geosynthetic solutions



Safe containment,
waste, water, mining



Please note that the information contained in this catalogue may be subject to inaccuracies and that all technical details and specifications should be verified before making any purchasing decisions.

For any questions or further information please contact one of our world class customer service representatives

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We are in Socials

