

Introducing PM020, an advanced PE-RT Type 2 material, specifically engineered to deliver superior thermal resistance properties for high-performance applications. This innovative polyethylene variant is extensively utilized in hot and cold water supply systems, heating applications, and diverse industrial sectors due to its exceptional durability, flexibility, and high-temperature resilience. The "PE-RT" designation signifies "Polyethylene of Raised Temperature," accentuating its suitability for demanding environments that require higher temperature resistance. PM020 is expertly designed for multilayer pipes, serving as both the inner and outer layers, offering enhanced temperature resistance compared to PE-RT Type 1 materials. PM020's unique attributes enable it to withstand exposure to elevated temperatures and pressures, achieved through specialized processing techniques during production. This material serves as a reliable, high-performance alternative to traditional metal pipes in heating and plumbing systems, providing several advantages such as ease of installation, corrosion resistance, reduced noise transmission, and an extended service life. Furthermore, PM020 pipes are eco-friendly, allowing for end-of-life recycling, and ensuring sustainability within modern piping systems. With its superior thermal resistance and durability, PM020 is the ideal choice for high-temperature piping applications.

Typical Properties

Property	Value	Unit	Test Method
Density	0.948	gr/cm ³	ISO 1183
Melt Flow Rate (190 °C / 5 Kg)	0.17	gr/10min	ISO 1133
Tensile Strength at Yield	248	kg _f /cm ²	ASTM D638
Elongation at Break	>500	%	ASTM D638
Flexural Modulus	8800	kg _f /cm ²	ASTM D790
Hardness (Rockwell)	64	shore D	ASTM D2240
Impact Strength (Izod with Notch)	>50	kg _f cm/cm	ASTM D256
Melting Point	130	°C	ASTM D3418
Softening Point (Vicat)	126	°C	ASTM D1525
Oxidation Induction Time at 200°C	>20	min	ASTM D3895
Heat Deflection Temperature	65	°C	ASTM D648
Brittleness Temperature	<-70	°C	ASTM D746

Processing Condition:

Recommended melt temperature: 200 °C - 245 °C

Zone Temperature: 230 °C

Hopper Temperature: 190 °C

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