

MR230C POLYPROPYLENE

Moplen MR230C | Random Copolymer | Designed for hot & cold water supply systems

MOPLen MR230C is a random copolymer polypropylene grade designed for hot and cold water supply systems. According to the supplied datasheet, it is also suitable for industrial water conveyance and can be processed by extrusion and injection molding. The grade is described as having good creep properties.

Product Highlights

Polymer Type	Random Copolymer
Processing	Extrusion and Injection Molding
Main Application	Hot and cold water supply systems; industrial water conveyance
Key Property	Good creep properties

Physical Properties

Property	Value	Test Method
Melt Flow Rate (190°C, 5 kg)	0.4-0.6 g/10 min	ISO R1133 / ASTM D1238 L
Melt Flow Rate (230°C, 2.16 kg)	<0.3 g/10 min	ISO R1133 / ASTM D1238 L
Melt Flow Rate (230°C, 5 kg)	0.8-1.3 g/10 min	ISO R1133 / ASTM D1238 L
Rockwell Hardness	93 R	ISO R2039/2
Linear Coefficient of Expansion	0.11 mm/(m·°C)	ASTM D696
Thermal Conductivity (23°C)	0.17 W/(m·K)	ISO R3146
Specific Gravity	0.89	ISO R1183 / ASTM D792

Mechanical Properties

Property	Value	Test Method
Flexural Modulus	835 MPa (ISO) / 950 MPa (ASTM)	ISO R178 / ASTM D790
Tensile Strength at Yield	28 MPa	ISO R527 / ASTM D638
Elongation at Break	>430 %	ISO R527 / ASTM D638
Notched Izod Impact, 23°C	NB	ISO R180/1A / ASTM D256
Notched Izod Impact, 0°C	9.1 kJ/m² (ISO) / 160 J/m (ASTM)	ISO R180/1A / ASTM D256
Notched Izod Impact, -20°C	4.9 kJ/m² (ISO) / 50 J/m (ASTM)	ISO R180/1A / ASTM D256
Unnotched Izod Impact, 23°C	NB	ISO R180/1A / ASTM D256
Unnotched Izod Impact, 0°C	NB	ISO R180/1A / ASTM D256

Thermal Properties

Property	Value	Test Method
Vicat Softening Point (9.8 N)	135 °C	ISO R306 / ASTM D1525
H.D.T. (0.45 MPa)	80 °C	ISO R75 / ASTM D648
Accelerated Oven Ageing at 135°C	>9,000 h	ISO R4577 / ASTM D3012

Processing

- Extrusion
- Injection Molding

Typical Applications

- Hot and cold water supply systems
- Industrial water conveyance
- Applications requiring suitable creep properties

- Extruded and injection-molded polypropylene products, subject to product design and processing requirements

Technical Note

The values presented in this datasheet are typical values based on the supplied source document and are not guaranteed specifications. Test results may depend on specimen preparation and testing conditions. For final material selection and production approval, the TDS and COA of the purchased batch should be checked against the applicable product standard and process requirements.

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