TDS TECHNICAL DATA SHEET

PP-R MR230C

PP Random Copolymer · Hot & Cold Water Pipe Grade

Also traded as **PPRC · PP Random Copolymer** · Origin: **Iran**

MFR (230 °C / 5 KG)	SPECIFIC GRAVITY	PROCESS	OVEN AGEING (135 °C)
0.8 – 1.3 g/10 min	**0.89**	**Pipe Extrusion**	**> 9000** h

PRODUCT DESCRIPTION

PP-R MR230C is a polypropylene random copolymer designed for hot and cold water supply systems and industrial water conveyance. It offers excellent creep properties and processability by both extrusion and injection moulding.

- Excellent creep resistance
- Hot & cold water
- Long-term heat ageing
- Extrusion & injection

PROCESSING GUIDE

Process	**Pipe extrusion & injection**
Melt temperature	**200 – 230 °C**
Pipe standard	**DIN 8077 / 8078**
Form	**Natural pellets**

TYPICAL PROPERTIES

PROPERTY	TEST METHOD	UNIT	TYPICAL VALUE
PHYSICAL			
Melt Flow Rate (230 °C / 2.16 kg)	ASTM D1238	g/10 min	**< 0.3**
Melt Flow Rate (230 °C / 5 kg)	ASTM D1238	g/10 min	**0.8 – 1.3**
Melt Flow Rate (190 °C / 5 kg)	ASTM D1238	g/10 min	**0.4 – 0.6**
Specific Gravity	ASTM D792	—	**0.89**
MECHANICAL			
Flexural Modulus	ASTM D790	MPa	**950**
Tensile Strength at Yield	ASTM D638	MPa	**28**
Elongation at Break	ASTM D638	%	**> 430**
Izod Notched (23 °C / 0 °C / −20 °C)	ASTM D256	J/m	**NB / 160 / 50**
Rockwell Hardness	ISO 2039-2	R scale	**93**
THERMAL			
Vicat Softening Point (9.8 N)	ASTM D1525	°C	**135**
HDT (0.46 MPa)	ASTM D648	°C	**80**
Oven Ageing (135 °C)	ASTM D3012	h	**> 9000**
Linear Expansion Coefficient	ASTM D696	mm/(m·°C)	**0.11**

APPLICATIONS

- Hot & Cold Water Pipe
- PP-R Fittings
- Underfloor Heating
- Industrial Water Lines

PACKAGING

25 kg PE / woven bags

Palletised or jumbo on request

20′ / 40′ container loading

SUPPLY

Sea from Bandar Abbas, road or rail – **agreed per order**

FCA, CPT or DAP – terms in the offer

Pre-shipment inspection & export documents

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The values above are typical and are not to be construed as specification limits. Users should verify suitability for their own process and application.