## **MOPLEN** ,MR230C

MOPLEN MR230C is a polypropylene random copolymer grade, designed for hot and cold water supply systems.

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It is also suitable for industrial water conveyance.

The material has excellent creep properties and processability by extrusion and by janizapolymer.com injection moulding.

TYPICAL PROPERTIES (a)	panizapolymer.co		panizapolymer.co			
	ISO (b) METHOD	UNIT	VALUE	ASTM (b) METHOD	UNIT	VALUE
Physical properties			zapolym		-niZi	abolym
Melt flow rate (190°C, 5 kg) Melt flow rate (230°C, 2.16 kg) Melt flow rate (230°C, 5 kg) Hardness Rockwell Linear coefficient of expansion Thermal conductivity (23°C) Specific gravity	R 1133 R 1133 R 1133 R 2039/2 R 3146 R 1183	g/10 min g/10 min g/10 min R scale W/(m <sub>*</sub> K)	0.4 - 0.6 < 0.3 0.8 - 1.3 93 0.17 0.89	D 1238 L D 1238 L D 1238 L D 696	g/10 min g/10 min g/10 min mm/(m*°C)	0.4 - 0.6 < 0.3 0.8 - 1.3 0.11
Mechanical properties						
Flexural modulus Tensile strength at yield Elongation at break Notched Izod Impact strength at 23°C at 0°C at-20°C Unnotched Izod imp. strength at 23°C at 0°C	R 178 R 527 R 527 R 180/1A R 180/1A R 180/1A R 180/1A	MPa MPa % kJ/m² kJ/m² kJ/m² kJ/m²	835 28 >430 NB 9.1 4.9 NB NB	D 790 D 638 D 638 D 256 D 256 D 256 D 256 D 256	MPa MPa % J/m J/m J/m J/m	950 28 >430 NE 160 50 NE
Thermal properties		***				
Vicat softening point (9.8 N) H.D.T. (0.45 MPa) Accelerated oven ageing at 135°C	R 306 R 75 R 4577	°C °C hours	135 80 >9,000	D 1525 D 648 D 3012	°C °C hours	135 80 >9,000

a) Values shown are averages and not to be considered as product specifications. These values may shift slightly as more data is accumulated b) ASTM and ISO test methods are the latest under the Society current procedures. All specimens are prepared by injection.