Refining & Chemicals
Polymers

Description

Polypropylene Aceso® PPM R020 is random copolymer polypropylene with a Melt Flow Index of 1.8 g/10 min specially developped for the extrusion blow-moulding of medical containers and medical devices, to the exclusion of implants.

Characteristics

	Method	Unit	Typical Value
Rheological properties			
Melt Flow Index 230°C/2.16 kg	ISO 1133	g/10 min	1.8
Mechanical properties			
Tensile Strength at Yield	ISO 527-2	MPa	26
Elongation at Yield	ISO 527-2	%	10
Tensile modulus	ISO 527-2	MPa	1000
Flexural modulus	ISO 178	MPa	900
Izod Impact Strength (notched) at 23°C	ISO 180	kJ/m²	6
Charpy Impact Strength (notched) at 23°C	ISO 179	kJ/m²	8
Hardness Rockwell - R-scale	ISO 2039-2		82
Thermal properties			
Melting Point	ISO 3146	°C	149
Vicat Softening Point	ISO 306	°C	
50N-50°C per hour			67
10N-50°C per hour			130
Other physical properties			
Density	ISO 1183	g/cm³	0.902
Bulk Density	ISO 1183	g/cm³	0.525

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