

TOTAL Polypropylene Aceso® PPM R021

Polypropylene Random Copolymer

TOTAL Refining & Chemicals

Message:

Polypropylene PPM R021 is random copolymer polypropylene with a Melt Flow Index of 1.8 g/10 min specially developed for the extrusion blow-moulding of medical containers and medical devices, to the exclusion of implants. This grade can also be injection moulded.

General Information	
Uses	Containers Medical/Healthcare Applications
Agency Ratings	EC 1907/2006 (REACH)
RoHS Compliance	RoHS Compliant
Forms	Pellets
Processing Method	Extrusion Blow Molding Injection Molding

Physical	Nominal Value	Unit	Test Method
Density	0.902	g/cm ³	ISO 1183
Apparent Density	0.53	g/cm ³	ISO 60
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	1.8	g/10 min	ISO 1133
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	82		ISO 2039-2
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	1000	MPa	ISO 527-2
Tensile Stress (Yield)	26.0	MPa	ISO 527-2
Tensile Strain (Yield)	10	%	ISO 527-2
Flexural Modulus	900	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	8.0	kJ/m ²	ISO 179
Notched Izod Impact Strength (23°C)	6.0	kJ/m ²	ISO 180
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature			
--	130	°C	ISO 306/A50
--	67.0	°C	ISO 306/B50
Melting Temperature (DSC)	149	°C	ISO 3146

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