

Total PPM R021 Polypropylene, Random Copolymer for Medical Grade

Category : Polymer , Thermoplastic , Polypropylene (PP) , Polypropylene, Molded

Material Notes:

Polypropylene PPM R021 is a random copolymer polypropylene with a Melt Flow Index of 1.8 g/10 min specially developed for the extrusion blow molding of medical containers and medical devices, to the exclusion of implants. This grade can also be injection molded. Information provided by Total Petrochemicals.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Total-PPM-R021-Polypropylene-Random-Copolymer-for-Medical-Grade.php

Physical Properties	Metric	English	Comments
Specific Gravity	0.902 g/cc	0.902 g/cc	ISO 1183
Bulk Density	0.525 g/cc	0.0190 lb/in ³	ISO 1183
Melt Flow	1.8 g/10 min @Load 2.16 kg, Temperature 230 °C	1.8 g/10 min @Load 4.76 lb, Temperature 446 °F	ISO 1133

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	82	82	ISO 2039-2
Tensile Strength, Yield	26.0 MPa	3770 psi	ISO 527-2
Elongation at Yield	10 %	10 %	ISO 527-2
Tensile Modulus	1.00 GPa	145 ksi	ISO 527-2
Flexural Modulus	0.900 GPa	131 ksi	ISO 179
Izod Impact, Notched (ISO)	6.00 kJ/m ²	2.86 ft-lb/in ²	ISO 180
Charpy Impact, Notched	0.800 J/cm ²	3.81 ft-lb/in ²	ISO 179

Thermal Properties	Metric	English	Comments
Melting Point	149 °C	300 °F	ISO 3146
Vicat Softening Point	67.0 °C @Load 5.10 kg	153 °F @Load 11.2 lb	50°C per hour; ISO 306
	130 °C @Load 1.02 kg	266 °F @Load 2.25 lb	50°C per hour; ISO 306

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