

Total PPH 12020 Polypropylene Homopolymer, Injection Molding

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

Material Notes:

Polypropylene PPH 12020 is a clarified high fluidity homopolymer with a melt flow index of 60 g/10 min. Polypropylene PPH 12020 has been designed with a very high stiffness and an outstanding transparency. It is suitable for the injection molding of transparent packaging. Information provided by Total Petrochemicals.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Total-PPH-12020-Polypropylene-Homopolymer-Injection-Molding.php

Physical Properties	Metric	English	Comments
Specific Gravity	0.905 g/cc	0.905 g/cc	ISO 1183
Bulk Density	0.525 g/cc	0.0190 lb/in ³	ISO 1183
Melt Flow	60 g/10 min @Load 2.16 kg, Temperature 230 °C	60 g/10 min @Load 4.76 lb, Temperature 446 °F	ISO 1133

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	98	98	ISO 2039-2
Tensile Strength, Yield	37.0 MPa	5370 psi	ISO 527-2
Elongation at Yield	8.0 %	8.0 %	ISO 527-2
Tensile Modulus	1.85 GPa	268 ksi	ISO 527-2
Flexural Modulus	1.80 GPa	261 ksi	ISO 178
Izod Impact, Notched (ISO)	3.50 kJ/m ²	1.67 ft-lb/in ²	ISO 180
Charpy Impact, Notched	0.400 J/cm ²	1.90 ft-lb/in ²	ISO 179

Thermal Properties	Metric	English	Comments
Melting Point	165 °C	329 °F	ISO 3146
Deflection Temperature at 0.46 MPa (66 psi)	100 °C	212 °F	120°C per hour; ISO 752
Deflection Temperature at 1.8 MPa (264 psi)	55.0 °C	131 °F	120°C per hour; ISO 752
Vicat Softening Point	90.0 °C @Load 5.10 kg	194 °F @Load 11.2 lb	50°C per hour; ISO 306
	153 °C	307 °F	50°C per hour; ISO 306

Thermal Properties	Metric	English	Comments
	@Load 1.02 kg	@Load 2.25 lb	

Optical Properties	Metric	English	Comments
Transmission, Visible	90 %	90 %	transparent; thickness not quantified

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