

Total PPH 11012 Polypropylene Homopolymer, Injection Molding

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

Material Notes:

Polypropylene PPH 11012 is a nucleated controlled-rheology antistatic homopolymer with a high melt flow index of 55 g/10 min. Polypropylene PPH 11012 is characterized by high fluidity for high speed injection of thin wall articles such as dairy pots & tubs, salad trays, caps & closures and video cassette boxes. Polypropylene PPH 11012 has a highly antistatic nature that allows for shorter cycle times and easy demolding. Information provided by Total Petrochemicals.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Total-PPH-11012-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	55 g/10 min @Load 2.16 kg, Temperature 230 °C	55 g/10 min @Load 4.76 lb, Temperature 446 °F	ISO 1133

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	100	100	ISO 2039-2
Tensile Strength, Yield	34.0 MPa	4930 psi	ISO 527-2
Elongation at Yield	9.0 %	9.0 %	ISO 527-2
Tensile Modulus	1.70 GPa	247 ksi	ISO 527-2
Flexural Modulus	1.60 GPa	232 ksi	ISO 178
Izod Impact, Notched (ISO)	2.50 kJ/m ²	1.19 ft-lb/in ²	ISO 180
Charpy Impact, Notched	0.300 J/cm ²	1.43 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)	105 °C	221 °F	120°C per hour; ISO 752
Deflection Temperature at 1.8 MPa (264 psi)	58.0 °C	136 °F	120°C per hour; ISO 752
Vicat Softening Point	87.0 °C @Load 5.10 kg	189 °F @Load 11.2 lb	50°C per hour; ISO 306

Thermal Properties	152 °C Metric	306 °F English	Comments
	@Load 1.02 kg	@Load 2.25 lb	50 l. per hour; ISO 306

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