

Total PPC 11750 Polypropylene, Heterophasic Copolymer, Injection Molding

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

Material Notes:

Polypropylene PPC 11750 is a nucleated and controlled-rheology heterophasic copolymer with very high Melt Flow index of 50 g/10 min. Polypropylene PPC 11750 is characterized by good impact resistance. Polypropylene PPC 10641 has been developed for high speed injection molding of thin walled packaging containers. Information provided by Total Petrochemicals.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Total-PPC-11750-Polypropylene-Heterophasic-Copolymer-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	50 g/10 min @Load 2.16 kg, Temperature 230 °C	50 g/10 min @Load 4.76 lb, Temperature 446 °F	ISO 1133

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	83	83	ISO 2039-2
Tensile Strength, Yield	23.0 MPa	3340 psi	ISO 527-2
Elongation at Yield	4.5 %	4.5 %	ISO 527-2
Tensile Modulus	1.25 GPa	181 ksi	ISO 527-2
Flexural Modulus	1.20 GPa	174 ksi	ISO 178
Izod Impact, Notched (ISO)	4.50 kJ/m ² @Temperature -20.0 °C	2.14 ft-lb/in ² @Temperature -4.00 °F	ISO 180
	8.00 kJ/m ² @Temperature 23.0 °C	3.81 ft-lb/in ² @Temperature 73.4 °F	ISO 180
Charpy Impact, Notched	0.450 J/cm ² @Temperature -20.0 °C	2.14 ft-lb/in ² @Temperature -4.00 °F	ISO 179
	0.900 J/cm ² @Temperature 23.0 °C	4.28 ft-lb/in ² @Temperature 73.4 °F	ISO 179

Thermal Properties	Metric	English	Comments
Melting Point	165 °C	329 °F	ISO 3146

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (264 psi)	55.0 °C	131 °F	120°C per hour; ISO 752
Vicat Softening Point	70.0 °C	158 °F	50°C per hour; ISO 306
	@Load 5.10 kg	@Load 11.2 lb	
	140 °C	284 °F	50°C per hour; ISO 306
	@Load 1.02 kg	@Load 2.25 lb	

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