

Total PPC 10642 Polypropylene, Heterophasic Copolymer, Injection Molding

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

Material Notes:

Polypropylene PPC 10642 is a nucleated antistatic heterophasic copolymer with high Melt Flow index of 44 g/10 min. Polypropylene PPC 10642 is characterized by high fluidity with good mechanical properties. Polypropylene PPC 10641 has been developed for high speed injection molding of pails and food packaging. Peroxide is not used in the manufacturing of this product. Information provided by Total Petrochemicals.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Total-PPC-10642-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	44 g/10 min @Load 2.16 kg, Temperature 230 °C	44 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	27.0 MPa	3920 psi	ISO 527-2
Elongation at Yield	4.0 %	4.0 %	ISO 527-2
Tensile Modulus	1.60 GPa	232 ksi	ISO 527-2
Flexural Modulus	1.50 GPa	218 ksi	ISO 178
Izod Impact, Notched (ISO)	4.00 kJ/m ² @Temperature -20.0 °C	1.90 ft-lb/in ² @Temperature -4.00 °F	ISO 180
	7.50 kJ/m ² @Temperature 23.0 °C	3.57 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
	0.700 J/cm ² @Temperature 23.0 °C	3.33 ft-lb/in ² @Temperature 73.4 °F	ISO 179

Thermal Properties	Metric	English	Comments
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Melting Point Thermal Properties	165 °C Metric	329 °F English	ISO 3146 Comments
Deflection Temperature at 0.46 MPa (66 psi)	114 °C	237 °F	120°C per hour; ISO 752
Deflection Temperature at 1.8 MPa (264 psi)	57.0 °C	135 °F	120°C per hour; ISO 752
Vicat Softening Point	80.0 °C	176 °F	50°C per hour; ISO 306
	@Load 5.10 kg	@Load 11.2 lb	
	148 °C	298 °F	50°C per hour; ISO 306
	@Load 1.02 kg	@Load 2.25 lb	

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