

Total PPC 7642 Polypropylene, Heterophasic Copolymer

Category : Polymer , Thermoplastic , Polypropylene (PP)

Material Notes:

ATOFINA Propylene 7642 is a nucleated and antistatic heterophasic copolymer. PPC 7642 is characterized by a very high stiffness.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Total-PPC-7642-Polypropylene-Heterophasic-Copolymer.php

Physical Properties	Metric	English	Comments
Bulk Density	0.525 g/cc	0.0190 lb/in ³	ISO 1183
Density	0.905 g/cc	0.0327 lb/in ³	ISO 1183
Melt Flow	13 g/10 min @Load 2.16 kg, Temperature 230 °C	13 g/10 min @Load 4.76 lb, Temperature 446 °F	ISO 1133

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	90	90	ISO 2039-2
Tensile Strength, Yield	27.0 MPa	3920 psi	ISO 527-2
Elongation at Yield	5.0 %	5.0 %	ISO 527-2
Tensile Modulus	1.60 GPa	232 ksi	ISO 527-2
Flexural Modulus	1.50 GPa	218 ksi	ISO 527-2
Izod Impact, Notched (ISO)	8.00 kJ/m ²	3.81 ft-lb/in ²	ISO 179
	5.00 kJ/m ² @Temperature -20.0 °C	2.38 ft-lb/in ² @Temperature -4.00 °F	ISO 179
Charpy Impact, Notched	0.900 J/cm ²	4.28 ft-lb/in ²	ISO 179
	0.500 J/cm ² @Temperature -20.0 °C	2.38 ft-lb/in ² @Temperature -4.00 °F	ISO 179

Thermal Properties	Metric	English	Comments
Melting Point	165 °C	329 °F	ISO 3146
Deflection Temperature at 0.46 MPa (66 psi)	95.0 °C	203 °F	120°C per hour; ISO 75-2
Deflection Temperature at 1.8 MPa (264 psi)	53.0 °C	127 °F	120°C per hour; ISO 75-2
Vicat Softening Point			50N-50°C per hour; ISO 306

Thermal Properties	75.0 °C	167 °F	Comments
	Metric	English	
	145 °C	293 °F	10N-50°C per hour; ISO 306

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