

Total PPC 10712 Polypropylene, Heterophasic Copolymer

Category : Polymer , Thermoplastic , Polypropylene (PP)

Material Notes:

ATOFINA Propylene 10712 is a nucleated and controlled-rheology heterophasic copolymer. PPC 10712 is characterized by good stiffness and impact resistance as well as low shrinkage and low warpage.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Total-PPC-10712-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	40 g/10 min @Load 2.16 kg, Temperature 230 °C	40 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	25.0 MPa	3630 psi	ISO 527-2
Elongation at Yield	5.0 %	5.0 %	ISO 527-2
Tensile Modulus	1.30 GPa	189 ksi	ISO 527-2
Flexural Modulus	1.20 GPa	174 ksi	ISO 527-2
Izod Impact, Notched (ISO)	9.00 kJ/m ²	4.28 ft-lb/in ²	ISO 180
	4.50 kJ/m ² @Temperature -20.0 °C	2.14 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
	0.450 J/cm ² @Temperature -20.0 °C	2.14 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)	100 °C	212 °F	120°C per hour; ISO 75-2
Deflection Temperature at 1.8 MPa (264 psi)	55.0 °C	131 °F	120°C per hour; ISO 75-2

Thermal Properties	Metric	English	Comments
	140 °C	284 °F	per hour; ISO 306 10N-50°C per hour; ISO 306

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