

Total PPC 7712 Polypropylene, Heterophasic Copolymer

Category : Polymer , Thermoplastic , Polypropylene (PP)

Material Notes:

ATOFINA Propylene 7712 is a heterophasic copolymer. PPC 7712 is characterized by excellent impact resistance and antistatic properties and has been formulated to allow faster cycling through early demolding.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Total-PPC-7712-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	80	80	ISO 2039-2
Tensile Strength, Yield	23.0 MPa	3340 psi	ISO 527-2
Elongation at Yield	6.0 %	6.0 %	ISO 527-2
Tensile Modulus	1.20 GPa	174 ksi	ISO 527-2
Flexural Modulus	1.10 GPa	160 ksi	ISO 527-2
Izod Impact, Notched (ISO)	>= 40.0 kJ/m ²	>= 19.0 ft-lb/in ²	ISO 179
	6.00 kJ/m ² @Temperature -20.0 °C	2.86 ft-lb/in ² @Temperature -4.00 °F	ISO 179
Charpy Impact, Notched	>= 4.00 J/cm ²	>= 19.0 ft-lb/in ²	ISO 180
	0.700 J/cm ² @Temperature -20.0 °C	3.33 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)	90.0 °C	194 °F	120°C per hour; ISO 75-2
Deflection Temperature at 1.8 MPa (264 psi)	48.0 °C	118 °F	120°C per hour; ISO 75-2

Thermal Properties	Metric	English	Comments
	135 °C	275 °F	10N-50°C per hour; ISO 306

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