

Total PPC 4663 Polypropylene, Heterophasic Copolymer

Category : Polymer , Thermoplastic , Polypropylene (PP)

Material Notes:

ATOFINA Polypropylene PPC 4663 is heterophasic copolymer. PPC 4663 is characterized by a combination of ease of processing and good manufacturing article properties in applications ranging from household to industrial. These include the manufacture of chair shells, pails, crates and other articles requiring a combination of good stiffness and impact properties.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Total-PPC-4663-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	3.5 g/10 min @Load 2.16 kg, Temperature 230 °C	3.5 g/10 min @Load 4.76 lb, Temperature 446 °F	ISO 1133

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	82	82	ISO 2039-2
Tensile Strength, Yield	25.0 MPa	3630 psi	ISO 527-2
Elongation at Yield	7.0 %	7.0 %	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)	18.0 kJ/m ²	8.57 ft-lb/in ²	ISO 179
	5.50 kJ/m ² @Temperature -20.0 °C	2.62 ft-lb/in ² @Temperature -4.00 °F	ISO 179
Charpy Impact, Notched	2.00 J/cm ²	9.52 ft-lb/in ²	ISO 179
	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)	92.0 °C	198 °F	120°C per hour; ISO 75-2

Deflection Temperature at 1.8 MPa Thermal Properties (104 psi)	50.0 °C Metric	122 °F English	120°C per hour; ISO 75-2 Comments
Vicat Softening Point	65.0 °C	149 °F	50N-50°C per hour; ISO 306
	135 °C	275 °F	10N-50°C per hour; ISO 306

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