

Total PPC 3645 Polypropylene, Heterophasic Copolymer

Category : Polymer , Thermoplastic , Polypropylene (PP)

Material Notes:

A TOFINA Polypropylene PPC 3645 is a nucleated heterophasic copolymer. PPC 3645 is characterized by improved stiffness, creep resistance and high impact resistance. Application PPC 3645 has been developed specifically for the extrusion of corrugated cardboard, corrugated and twin walled pipes, conduit pipe and other extrusion applications. Information provided provided by Total Petrochemicals. Total Petrochemicals acquired former Fina and Atofina plastics product lines.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Total-PPC-3645-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	1.3 g/10 min @Load 2.16 kg, Temperature 230 °C	1.3 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	29.0 MPa	4210 psi	ISO 527-2
Elongation at Yield	6.0 %	6.0 %	ISO 527-2
Tensile Modulus	1.50 GPa	218 ksi	ISO 527-2
Flexural Modulus	1.40 GPa	203 ksi	ISO 527-2
Izod Impact, Notched (ISO)	50.0 kJ/m ²	23.8 ft-lb/in ²	ISO 179
	9.00 kJ/m ² @Temperature -20.0 °C	4.28 ft-lb/in ² @Temperature -4.00 °F	ISO 179
Charpy Impact, Notched	1.00 J/cm ²	4.76 ft-lb/in ²	Low Temp; ISO 179
	>= 5.00 J/cm ²	>= 23.8 ft-lb/in ²	

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	50.0 °C	122 °F	

(264 psi) Thermal Properties	Metric	English	120°C per hour; ISO 75-2 Comments
Vicat Softening Point	68.0 °C	154 °F	50N-50°C per hour; ISO 306
	137 °C	279 °F	10N-50°C per hour; ISO 306

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