

EPICHEM Epilen PP 20GF NAT Polypropylene, 20% Glass Fiber

Category : Polymer , Thermoplastic , Polypropylene (PP) , Polypropylene with 20% Glass Fiber Filler

Material Notes:

Characteristics: 20% glass fibre filled

Order this product through the following link:

http://www.lookpolymers.com/polymer_EPICHEM-Epilen-PP-20GF-NAT-Polypropylene-20-Glass-Fiber.php

Physical Properties	Metric	English	Comments
Density	1.07 g/cc	0.0387 lb/in ³	ASTM D792, ISO 1183
Linear Mold Shrinkage	0.0040 - 0.0080 cm/cm	0.0040 - 0.0080 in/in	ASTM D955
Melt Index of Compound	6.0 - 10 g/10 min @Load 1.20 kg, Temperature 300 °C	6.0 - 10 g/10 min @Load 2.65 lb, Temperature 572 °F	ASTM D1238, ISO 1133

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	110	110	ASTM D785, ISO 2039/2
Elongation at Break	9.0 %	9.0 %	ASTM D638, ISO R527
Flexural Modulus	3.50 GPa	508 ksi	ASTM D790, ISO 178
Izod Impact, Notched	>= 4.50 J/cm @Thickness 3.20 mm, Temperature 23.0 °C	>= 8.43 ft-lb/in @Thickness 0.126 in, Temperature 73.4 °F	ASTM D256, ISO 180/4a

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	70.0 °C	158 °F	20000 h; VDE 0304/P2-1, IEC 216
	85.0 °C	185 °F	5000 h; VDE 0304/P2-1, IEC 216
	180 °C	356 °F	few hours; VDE 0304/P2-1, IEC 216
Deflection Temperature at 1.8 MPa (264 psi)	145 °C	293 °F	ASTM D648, ISO 75
Vicat Softening Point	>= 110 °C @Load 5.00 kg	>= 230 °F @Load 11.0 lb	120°C/min; ASTM D1525/B, ISO 306/B
Flammability, UL94	HB @Thickness 1.60 mm	HB @Thickness 0.0630 in	
	HB @Thickness 3.20 mm	HB @Thickness 0.126 in	

Thermal Properties	Metric	English	Comments
Electrical Properties	Metric	English	Comments
Comparative Tracking Index	>= 600 V	>= 600 V	VDE 0303-P1, IEC 112

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