

EPICHEM Epiter PBT GF 20 Polybutylene Terephthalate, 20% Glass

Category : Polymer , Thermoplastic , Polyester, TP , Polybutylene Terephthalate (PBT) , Polybutylene Terephthalate (PBT), 20% Glass Fiber Filled

Material Notes:

Characteristics: 20% glass fibre filled

Order this product through the following link:

http://www.lookpolymers.com/polymer_EPICHEM-Epiter-PBT-GF-20-Polybutylene-Terephthalate-20-Glass.php

Physical Properties	Metric	English	Comments
Density	1.45 g/cc	0.0524 lb/in ³	ASTM D792, ISO 1183
Water Absorption	0.30 %	0.30 %	24h; ASTM D570, ISO 62
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Linear Mold Shrinkage	0.0025 - 0.015 cm/cm	0.0025 - 0.015 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell M	83	83	ASTM D785, ISO 2039/2
Tensile Strength, Yield	118 MPa	17100 psi	ASTM D638, ISO R527
Elongation at Break	3.0 %	3.0 %	ASTM D638, ISO R527
Flexural Strength	185 MPa	26800 psi	ASTM D790, ISO 178
Flexural Modulus	6.30 GPa	914 ksi	ASTM D790, ISO 178
Izod Impact, Notched	0.700 J/cm	1.31 ft-lb/in	ASTM D256, ISO 180/4a
	@Thickness 3.20 mm, Temperature 23.0 °C	@Thickness 0.126 in, Temperature 73.4 °F	

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	140 °C	284 °F	20000 h; VDE 0304/P2-1, IEC 216
	160 °C	320 °F	5000 h; VDE 0304/P2-1, IEC 216
	200 °C	392 °F	few hours; VDE 0304/P2-1, IEC 216
Deflection Temperature at 1.8 MPa (264 psi)	200 °C	392 °F	ASTM D648, ISO 75
Vicat Softening Point	210 °C	410 °F	120°C/min; ASTM D1525/B, ISO 306/B
	@Load 5.00 kg	@Load 11.0 lb	
	220 °C	428 °F	120°C/min; ASTM D1525/A, ISO 306/A
	@Load 0.999 kg	@Load 2.20 lb	

Thermal Properties Flammability, UL 94	Metric	English	Comments
	@Thickness 1.60 mm	@Thickness 0.0630 in	
	HB	HB	
	@Thickness 3.20 mm	@Thickness 0.126 in	

Electrical Properties	Metric	English	Comments
Surface Resistance	1.00e+14 ohm	1.00e+14 ohm	ASTM D257, IEC 93
Dielectric Constant	3.8	3.8	ASTM D150, IEC 250
	@Frequency 1000 Hz	@Frequency 1000 Hz	
Dielectric Strength	20.0 kV/mm	508 kV/in	ASTM D149, IEC 243
Dissipation Factor	0.0020	0.0020	ASTM D150, IEC 250
	@Frequency 1000 Hz	@Frequency 1000 Hz	
Comparative Tracking Index	400 V	400 V	VDE 0303-P1, IEC 112

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