

EPICHEM Epilac R ABS 17% GF ABS, 17% Glass Fiber

Category : Polymer , Thermoplastic , ABS Polymer , Acrylonitrile Butadiene Styrene (ABS), 20% Glass Fiber Filled

Material Notes:

Characteristics: 17% glass fibre filled

Order this product through the following link:

http://www.lookpolymers.com/polymer_EPICHEM-Epilac-R-ABS-17-GF-ABS-17-Glass-Fiber.php

Physical Properties	Metric	English	Comments
Density	1.17 g/cc	0.0423 lb/in ³	ASTM D792, ISO 1183
Water Absorption	0.25 %	0.25 %	24h; ASTM D570, ISO 62
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Linear Mold Shrinkage	0.0020 - 0.0040 cm/cm	0.0020 - 0.0040 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell M	103	103	ASTM D785, ISO 2039/2
Tensile Strength, Yield	63.0 MPa	9140 psi	ASTM D638, ISO R527
Elongation at Break	2.0 %	2.0 %	ASTM D638, ISO R527
Flexural Strength	95.0 MPa	13800 psi	ASTM D790, ISO 178
Flexural Modulus	5.45 GPa	790 ksi	ASTM D790, ISO 178
Izod Impact, Notched	0.400 J/cm	0.749 ft-lb/in	ASTM D256, ISO 180/4a
	@Thickness 3.20 mm, Temperature -30.0 °C	@Thickness 0.126 in, Temperature -22.0 °F	
	0.500 J/cm	0.937 ft-lb/in	ASTM D256, ISO 180/4a
	@Thickness 3.20 mm, Temperature 0.000 °C	@Thickness 0.126 in, Temperature 32.0 °F	
	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
Hot Ball Pressure Test	>= 80.0 °C	>= 176 °F	BS 3456, IEC 335
Deflection Temperature at 1.8 MPa (264 psi)	90.0 °C	194 °F	ASTM D648, ISO 75
Vicat Softening Point	100 °C	212 °F	120°C/min; ASTM D1525/B, ISO

Thermal Properties	@Load 5.00 kg Metric	@Load 11.0 lb English	306/B Comments
	110 °C	230 °F	120°C/min; ASTM D1525/A, ISO 306/A
	@Load 0.999 kg	@Load 2.20 lb	
Flammability, UL94	HB	HB	
	@Thickness 1.60 mm	@Thickness 0.0630 in	
	HB	HB	
	@Thickness 3.20 mm	@Thickness 0.126 in	
Glow Wire Test	650 °C	1200 °F	VDE 0471/P2-4, IEC 695
	@Thickness 3.20 mm	@Thickness 0.126 in	
	650 °C	1200 °F	VDE 0471/P2-4, IEC 695
	@Thickness 2.00 mm	@Thickness 0.0787 in	

Electrical Properties	Metric	English	Comments
Surface Resistance	1.00e+14 ohm	1.00e+14 ohm	ASTM D257, IEC 93
Dielectric Constant	3.4	3.4	ASTM D150, IEC 250
	@Frequency 1000 Hz	@Frequency 1000 Hz	
Dielectric Strength	30.0 kV/mm	762 kV/in	ASTM D149, IEC 243
Dissipation Factor	0.020	0.020	ASTM D150, IEC 250
	@Frequency 1000 Hz	@Frequency 1000 Hz	
Comparative Tracking Index	600 V	600 V	VDE 0303-P1, IEC 112

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