

EPICHEM Epilac R ABS 10% GF Acrylonitrile Butadiene Styrene, 10% Glass Fiber

Category : Polymer , Thermoplastic , ABS Polymer , Acrylonitrile Butadiene Styrene (ABS), 10% Glass Fiber Filled

Material Notes:

Characteristics: 10% glass fibre filled

Order this product through the following link:

http://www.lookpolymers.com/polymer_EPICHEM-Epilac-R-ABS-10-GF-Acrylonitrile-Butadiene-Styrene-10-Glass-Fiber.php

Physical Properties	Metric	English	Comments
Density	1.12 g/cc	0.0405 lb/in ³	ASTM D792, ISO 1183
Water Absorption	0.30 % @Temperature 23.0 °C	0.30 % @Temperature 73.4 °F	24h; ASTM D570, ISO 62
Linear Mold Shrinkage	0.0020 - 0.0050 cm/cm	0.0020 - 0.0050 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	60.0 MPa	8700 psi	ASTM D638, ISO R527
Elongation at Break	3.0 %	3.0 %	ASTM D638, ISO R527
Flexural Strength	90.0 MPa	13100 psi	ASTM D790, ISO 178
Flexural Modulus	4.00 GPa	580 ksi	ASTM D790, ISO 178
Izod Impact, Notched	0.300 J/cm @Thickness 3.20 mm, Temperature -30.0 °C	0.562 ft-lb/in @Thickness 0.126 in, Temperature -22.0 °F	ASTM D256, ISO 180/4a
	0.500 J/cm @Thickness 3.20 mm, Temperature 0.000 °C	0.937 ft-lb/in @Thickness 0.126 in, Temperature 32.0 °F	ASTM D256, ISO 180/4a
	0.800 J/cm @Thickness 3.20 mm, Temperature 23.0 °C	1.50 ft-lb/in @Thickness 0.126 in, Temperature 73.4 °F	ASTM D256, ISO 180/4a

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)	86.0 °C	187 °F	ASTM D648, ISO 75
Vicat Softening Point	97.0 °C @Load 5.00 kg	207 °F @Load 11.0 lb	120°C/min; ASTM D1525/B, ISO 306/B

Thermal Properties	106 °C Metric	223 °F English	120°C/min: ASTM D1525/A, ISO 3087A Comments
	@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	3.2	3.2	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	500 V	500 V	VDE 0303-P1, IEC 112

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