

EPICHEM Epsilon G4-PC 20% GF Polycarbonate, 20% Glass Fiber

Category : Polymer , Thermoplastic , Polycarbonate (PC) , Polycarbonate, 20% Glass Filled

Material Notes:

Characteristics: 20% glass fibre filled, excellent mechanical properties

Order this product through the following link:

http://www.lookpolymers.com/polymer_EPICHEM-Epsilon-G4-PC-20-GF-Polycarbonate-20-Glass-Fiber.php

Physical Properties	Metric	English	Comments
Density	1.35 g/cc	0.0488 lb/in ³	ASTM D792, ISO 1183
Water Absorption	0.13 % @Temperature 23.0 °C	0.13 % @Temperature 73.4 °F	24h; ASTM D570, ISO 62
Linear Mold Shrinkage	0.0020 - 0.0040 cm/cm	0.0020 - 0.0040 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell L	95	95	ASTM D785, ISO 2039/2
Elongation at Break	3.0 - 5.0 %	3.0 - 5.0 %	ASTM D638, ISO R527
Flexural Strength	130 - 140 MPa	18900 - 20300 psi	ASTM D790, ISO 178
Flexural Modulus	4.00 - 4.50 GPa	580 - 653 ksi	ASTM D790, ISO 178
Izod Impact, Notched	0.600 J/cm @Thickness 3.20 mm, Temperature -40.0 °C	1.12 ft-lb/in @Thickness 0.126 in, Temperature -40.0 °F	ASTM D256, ISO 180/4a
	0.800 J/cm @Thickness 3.20 mm, Temperature 0.000 °C	1.50 ft-lb/in @Thickness 0.126 in, Temperature 32.0 °F	ASTM D256, ISO 180/4a
	0.900 J/cm @Thickness 3.20 mm, Temperature 23.0 °C	1.69 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	137 °C	279 °F	20000 h; VDE 0304/P2-1, IEC 216
	140 °C	284 °F	5000 h; VDE 0304/P2-1, IEC 216
	145 °C	293 °F	few hours; VDE 0304/P2-1, IEC 216
Hot Ball Pressure Test	>= 140 °C	>= 284 °F	BS 3456, IEC 335
Deflection Temperature at 1.8 MPa	145 - 150 °C	293 - 302 °F	

Thermal Properties	Metric	English	ASTM D648, ISO 75 Comments
Vicat Softening Point	150 °C	302 °F	120°C/min; ASTM D1525/B, ISO 306/B
	@Load 5.00 kg	@Load 11.0 lb	
	155 °C	311 °F	120°C/min; ASTM D1525/A, ISO 306/A
	@Load 0.999 kg	@Load 2.20 lb	
Flammability, UL94	V-2	V-2	
	@Thickness 1.60 mm	@Thickness 0.0630 in	
	V-0	V-0	
	@Thickness 3.20 mm	@Thickness 0.126 in	
Glow Wire Test	960 °C	1760 °F	VDE 0471/P2-4, IEC 695
	@Thickness 3.20 mm	@Thickness 0.126 in	
	960 °C	1760 °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	3.3	3.3	ASTM D150, IEC 250
	@Frequency 1000 Hz	@Frequency 1000 Hz	
Dielectric Strength	35.0 kV/mm	889 kV/in	ASTM D149, IEC 243
Dissipation Factor	0.0010	0.0010	ASTM D150, IEC 250
	@Frequency 1000 Hz	@Frequency 1000 Hz	
Comparative Tracking Index	195 V	195 V	VDE 0303-P1, IEC 112

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