

EPICHEM Epsilon PC GF 10 V0 Polycarbonate, 10% Glass Fiber

Category : Polymer , Thermoplastic , Polycarbonate (PC) , Polycarbonate, 10% Glass Filled

Material Notes:

Characteristics: self-extinguishing V0 at 1,6 mm, 10% glass fibre filled

Order this product through the following link:

http://www.lookpolymers.com/polymer_EPICHEM-Epsilon-PC-GF-10-V0-Polycarbonate-10-Glass-Fiber.php

Physical Properties	Metric	English	Comments
Density	1.25 g/cc	0.0452 lb/in ³	ASTM D792, ISO 1183
Filler Content	10 %	10 %	Internal
Water Absorption	0.12 % @Temperature 23.0 °C	0.12 % @Temperature 73.4 °F	24h; ASTM D570, ISO 62
Linear Mold Shrinkage	0.0030 - 0.0040 cm/cm	0.0030 - 0.0040 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	65.0 MPa	9430 psi	ASTM D638, ISO R527
Elongation at Break	5.0 %	5.0 %	ASTM D638, ISO R527
Flexural Strength	120 MPa	17400 psi	ASTM D790, ISO 178
Flexural Modulus	3.60 GPa	522 ksi	ASTM D790, ISO 178
Izod Impact, Notched	0.700 J/cm @Thickness 3.20 mm, Temperature -40.0 °C	1.31 ft-lb/in @Thickness 0.126 in, Temperature -40.0 °F	ASTM D256, ISO 180/4a
	0.800 - 1.00 J/cm @Thickness 3.20 mm, Temperature 0.000 °C	1.50 - 1.87 ft-lb/in @Thickness 0.126 in, Temperature 32.0 °F	ASTM D256, ISO 180/4a
	0.900 - 1.10 J/cm @Thickness 3.20 mm, Temperature 23.0 °C	1.69 - 2.06 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	140 °C	284 °F	20000 h; VDE 0304/P2-1, IEC 216
	145 °C	293 °F	5000 h; VDE 0304/P2-1, IEC 216
	150 °C	302 °F	few hours; VDE 0304/P2-1, IEC 216
Hot Ball Pressure Test			BS 3456, IEC 335

Thermal Properties	$\geq 140^{\circ}\text{C}$ Metric	$\geq 284^{\circ}\text{F}$ English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	145 °C	293 °F	ASTM D648, ISO 75
Vicat Softening Point	150 °C	302 °F	120°C/min; ASTM D1525/B, ISO 306/B
	@Load 5.00 kg	@Load 11.0 lb	
Flammability, UL94	160 °C	320 °F	120°C/min; ASTM D1525/A, ISO 306/A
	@Load 0.999 kg	@Load 2.20 lb	
Flammability, UL94	V-0	V-0	
	@Thickness 1.60 mm	@Thickness 0.0630 in	
Flammability, UL94	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	
Glow Wire Test	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	3.0	3.0	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	0.0080	0.0080	ASTM D150, IEC 250
	@Frequency 1000 Hz	@Frequency 1000 Hz	
Comparative Tracking Index	175 V	175 V	VDE 0303-P1, IEC 112

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