

EPICHEM Epsilon FR-PC V0 Polycarbonate

Category : Polymer , Thermoplastic , Polycarbonate (PC)

Material Notes:

Characteristics: self-extinguishing V0 at 1,6 mm

Order this product through the following link:

http://www.lookpolymers.com/polymer_EPICHEM-Epsilon-FR-PC-V0-Polycarbonate.php

Physical Properties	Metric	English	Comments
Density	1.21 g/cc	0.0437 lb/in ³	ASTM D792, ISO 1183
Water Absorption	0.15 % @Temperature 23.0 °C	0.15 % @Temperature 73.4 °F	24h; ASTM D570, ISO 62
Linear Mold Shrinkage	0.0050 - 0.0070 cm/cm	0.0050 - 0.0070 in/in	ASTM D955
Melt Index of Compound	15 - 20 g/10 min @Load 1.20 kg, Temperature 300 °C	15 - 20 g/10 min @Load 2.65 lb, Temperature 572 °F	ASTM D1238, ISO 1133

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell L	70	70	ASTM D785, ISO 2039/2
Tensile Strength, Yield	60.0 MPa	8700 psi	ASTM D638, ISO R527
Elongation at Break	>= 100 %	>= 100 %	ASTM D638, ISO R527
Flexural Strength	95.0 MPa	13800 psi	ASTM D790, ISO 178
Flexural Modulus	2.40 GPa	348 ksi	ASTM D790, ISO 178
Izod Impact, Notched	1.00 - 1.80 J/cm @Thickness 3.20 mm, Temperature -40.0 °C	1.87 - 3.37 ft-lb/in @Thickness 0.126 in, Temperature -40.0 °F	ASTM D256, ISO 180/4a
	5.00 J/cm @Thickness 3.20 mm, Temperature 0.000 °C	9.37 ft-lb/in @Thickness 0.126 in, Temperature 32.0 °F	ASTM D256, ISO 180/4a
	6.00 J/cm @Thickness 3.20 mm, Temperature 23.0 °C	11.2 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	110 °C	230 °F	20000 h; VDE 0304/P2-1, IEC 216

Thermal Properties	120 °C Metric	248 °F English	5000 h: VDE 0304/P2-1, IEC 216 Comments
	135 °C	275 °F	few hours; VDE 0304/P2-1, IEC 216
Hot Ball Pressure Test	>= 125 °C	>= 257 °F	BS 3456, IEC 335
Deflection Temperature at 1.8 MPa (264 psi)	135 °C	275 °F	ASTM D648, ISO 75
Vicat Softening Point	140 °C @Load 5.00 kg	284 °F @Load 11.0 lb	120°C/min; ASTM D1525/B, ISO 306/B
	150 °C @Load 0.999 kg	302 °F @Load 2.20 lb	120°C/min; ASTM D1525/A, ISO 306/A
Flammability, UL94	V-0 @Thickness 1.60 mm	V-0 @Thickness 0.0630 in	
	V-0 @Thickness 3.20 mm	V-0 @Thickness 0.126 in	
Glow Wire Test	960 °C @Thickness 3.20 mm	1760 °F @Thickness 0.126 in	VDE 0471/P2-4, IEC 695
	960 °C @Thickness 2.00 mm	1760 °F @Thickness 0.0787 in	VDE 0471/P2-4, IEC 695

Electrical Properties	Metric	English	Comments
Surface Resistance	1.00e+14 ohm	1.00e+14 ohm	ASTM D257, IEC 93
Dielectric Constant	3.0 @Frequency 1000 Hz	3.0 @Frequency 1000 Hz	ASTM D150, IEC 250
Dielectric Strength	35.0 kV/mm	889 kV/in	ASTM D149, IEC 243
Dissipation Factor	0.0010 @Frequency 1000 Hz	0.0010 @Frequency 1000 Hz	ASTM D150, IEC 250
Comparative Tracking Index	180 V	180 V	VDE 0303-P1, IEC 112

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China