

## EPICHEM Epicarb PC Polycarbonate

Category : Polymer , Thermoplastic , Polycarbonate (PC)

### Material Notes:

Characteristics: high fluidity, good impact

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_EPICHEM-Epicarb-PC-Polycarbonate.php](http://www.lookpolymers.com/polymer_EPICHEM-Epicarb-PC-Polycarbonate.php)

Physical Properties	Metric	English	Comments
Density	1.20 g/cc	0.0434 lb/in <sup>3</sup>	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	50.0 MPa	7250 psi	ASTM D638, ISO R527
Elongation at Break	>= 50 %	>= 50 %	ASTM D638, ISO R527
Flexural Strength	80.0 MPa	11600 psi	ASTM D790, ISO 178
Flexural Modulus	2.20 GPa	319 ksi	ASTM D790, ISO 178
Izod Impact, Notched	>= 0.800 J/cm @Thickness 3.20 mm, Temperature -40.0 °C	>= 1.50 ft-lb/in @Thickness 0.126 in, Temperature -40.0 °F	ASTM D256, ISO 180/4a
	>= 2.50 J/cm @Thickness 3.20 mm, Temperature 0.000 °C	>= 4.68 ft-lb/in @Thickness 0.126 in, Temperature 32.0 °F	ASTM D256, ISO 180/4a
	>= 4.00 J/cm @Thickness 3.20 mm, Temperature 23.0 °C	>= 7.49 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	115 °C Metric	239 °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	>= 128 °C	>= 262 °F	BS 3456, IEC 335
Deflection Temperature at 1.8 MPa (264 psi)	138 °C	280 °F	ASTM D648, ISO 75
Vicat Softening Point	138 - 145 °C	280 - 293 °F	120°C/min; ASTM D1525/B, ISO 306/B
	@Load 5.00 kg	@Load 11.0 lb	
	150 - 155 °C	302 - 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-2	V-2	
	@Thickness 3.20 mm	@Thickness 0.126 in	
Glow Wire Test	750 °C	1380 °F	VDE 0471/P2-4, IEC 695
	@Thickness 3.20 mm	@Thickness 0.126 in	
	750 °C	1380 °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	0.0010	0.0010	ASTM D150, IEC 250
	@Frequency 1000 Hz	@Frequency 1000 Hz	
Comparative Tracking Index	180 V	180 V	VDE 0303-P1, IEC 112

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