

## EPICHEM Epicarb PC BLACK IQ Polycarbonate

Category : Polymer , Thermoplastic , Polycarbonate (PC)

**Material Notes:**

Characteristics: good fluidity, good impact, industrial quality

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_EPICHEM-Epicarb-PC-BLACK-IQ-Polycarbonate.php](http://www.lookpolymers.com/polymer_EPICHEM-Epicarb-PC-BLACK-IQ-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	8.0 - 25 g/10 min	8.0 - 25 g/10 min	ASTM D1238, ISO 1133

Mechanical Properties	Metric	English	Comments
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 J/cm @Thickness 3.20 mm, Temperature -30.0 °C	1.87 ft-lb/in @Thickness 0.126 in, Temperature -22.0 °F	ASTM D256, ISO 180/4a
	>= 3.00 J/cm @Thickness 3.20 mm, Temperature 23.0 °C	>= 5.62 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	115 °C	239 °F	10000 h; VDE 0304/P2-1, IEC 216
	120 °C	248 °F	5000 h; VDE 0304/P2-1, IEC 216
	140 °C	284 °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)	138 °C	280 °F	ASTM D648, ISO 75

Thermal Properties	100 - 155 °C Metric	212 - 311 °F English	120°C/min; ASTM D1525/A, ISO 306/A Comments
	@Load 0.999 kg	@Load 2.20 lb	
	140 - 145 °C @Load 5.00 kg	284 - 293 °F @Load 11.0 lb	120°C/min; ASTM D1525/B, ISO 306/B
Flammability, UL94	HB - V-2 @Thickness 1.60 mm	HB - V-2 @Thickness 0.0630 in	
	HB - V-2 @Thickness 3.20 mm	HB - V-2 @Thickness 0.126 in	
Glow Wire Test	750 °C @Thickness 3.20 mm	1380 °F @Thickness 0.126 in	VDE 0471/P2-4, IEC 695
	750 °C @Thickness 2.00 mm	1380 °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	0.010 @Frequency 1000 Hz	0.010 @Frequency 1000 Hz	ASTM D150, IEC 250
Comparative Tracking Index	225 V	225 V	VDE 0303-P1, IEC 112

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