

EPICHEM Epiblend PC/ABS nero Polycarbonate/ABS

Category : Polymer , Thermoplastic , ABS Polymer , Polycarbonate/ABS Alloy, Unreinforced , Polycarbonate (PC)

Material Notes:

Order this product through the following link:

http://www.lookpolymers.com/polymer_EPICHEM-Epiblend-PCABS-nero-PolycarbonateABS.php

Physical Properties	Metric	English	Comments
Density	1.12 g/cc	0.0405 lb/in ³	ASTM D792, ISO 1183
Water Absorption	0.22 % @Temperature 23.0 °C	0.22 % @Temperature 73.4 °F	24h; ASTM D570, ISO 62
Linear Mold Shrinkage	0.0040 - 0.0070 cm/cm	0.0040 - 0.0070 in/in	ASTM D955
Melt Index of Compound	20 - 30 g/10 min @Load 5.00 kg, Temperature 260 °C	20 - 30 g/10 min @Load 11.0 lb, Temperature 500 °F	ASTM D1238, ISO 1133

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	45.0 MPa	6530 psi	ASTM D638, ISO R527
Elongation at Break	80 %	80 %	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	>= 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
Hot Ball Pressure Test	>= 100 °C	>= 212 °F	BS 3456, IEC 335
Deflection Temperature at 1.8 MPa (264 psi)	110 °C	230 °F	ASTM D648, ISO 75
Vicat Softening Point	>= 120 °C @Load 5.00 kg	>= 248 °F @Load 11.0 lb	120°C/min; ASTM D1525/B, ISO 306/B
	>= 130 °C @Load 0.999 kg	>= 266 °F @Load 2.20 lb	120°C/min; ASTM D1525/A, ISO 306/A
Flammability, UL94	HB @Thickness 1.60 mm	HB @Thickness 0.0630 in	

Thermal Properties	Metric	English	Comments
	@Thickness 3.20 mm	@Thickness 0.126 in	
Glow Wire Test	650 - 750 °C	1200 - 1380 °F	VDE 0471/P2-4, IEC 695
	@Thickness 3.20 mm	@Thickness 0.126 in	
	650 - 750 °C	1200 - 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	33.0 kV/mm	838 kV/in	ASTM D149, IEC 243
Dissipation Factor	0.010	0.010	ASTM D150, IEC 250
	@Frequency 1000 Hz	@Frequency 1000 Hz	
Comparative Tracking Index	250 V	250 V	VDE 0303-P1, IEC 112

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