

Techmer ES Elastoblend® PC E IM

Category : Polymer , Thermoplastic , Polycarbonate (PC) , Polycarbonate, Extruded , Polycarbonate, Impact Modified

Material Notes:

Availability: North America Forms: Pellets Additive: Impact Modifier Features: Impact Modified and High Viscosity Processing Method: Extrusion Information provided by TP Composites, Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Techmer-ES-Elastoblend-PC-E-IM.php

Physical Properties	Metric	English	Comments
Density	1.19 g/cc	0.0430 lb/in ³	ASTM D792
Water Absorption	0.14 % @Time 86400 sec	0.14 % @Time 24.0 hour	ASTM D570
Linear Mold Shrinkage, Flow	0.0060 cm/cm @Thickness 3.17 mm	0.0060 in/in @Thickness 0.125 in	ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	114	114	ASTM D785
Tensile Strength, Yield	58.6 MPa	8500 psi	ASTM D638
Elongation at Yield	14 %	14 %	ASTM D638
Flexural Yield Strength	82.7 MPa	12000 psi	ASTM D790
Flexural Modulus	2.48 GPa	360 ksi	ASTM D790
Izod Impact, Notched	2.72 J/cm @Thickness 3.17 mm, Temperature -40.0 °C	5.10 ft-lb/in @Thickness 0.125 in, Temperature -40.0 °F	ASTM D256
	2.94 J/cm @Thickness 6.35 mm, Temperature 22.8 °C	5.50 ft-lb/in @Thickness 0.250 in, Temperature 73.0 °F	ASTM D256
	8.54 J/cm @Thickness 3.17 mm, Temperature 22.8 °C	16.0 ft-lb/in @Thickness 0.125 in, Temperature 73.0 °F	ASTM D256

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	68.4 µm/m-°C	38.0 µin/in-°F	ASTM D696
Deflection Temperature at 0.46 MPa (66 psi)	132 °C	270 °F	Unannealed; ASTM D648

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	127 A°C	260 A°F	Unannealed; ASTM D548
Flammability, UL94	V-2 @Thickness 1.50 mm	V-2 @Thickness 0.0591 in	

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+17 ohm-cm	1.00e+17 ohm-cm	ASTM D257
Dielectric Strength	15.0 kV/mm	380 kV/in	Method A (Short-Time); ASTM D149

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