

Techmer ES Elastoblend® PC IM X

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

Material Notes:

Availability: North America Forms: Pellets Additive: Impact Modifier and Mold Release Features: Impact Modified and Good Mold Release Processing Method: Injection Molding Information provided by TP Composites, Inc.

Order this product through the following link:

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

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

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	7.0 %	7.0 %	ASTM D638
Flexural Yield Strength	82.7 MPa	12000 psi	ASTM D790
Flexural Modulus	2.34 GPa	340 ksi	ASTM D790
Izod Impact, Notched	2.14 J/cm	4.00 ft-lb/in	ASTM D256
	@Thickness 3.17 mm, Temperature -40.0 Â°C	@Thickness 0.125 in, Temperature -40.0 Â°F	
	2.14 J/cm	4.00 ft-lb/in	ASTM D256
	@Thickness 6.35 mm, Temperature 22.8 Â°C	@Thickness 0.250 in, Temperature 73.0 Â°F	
	8.54 J/cm	16.0 ft-lb/in	ASTM D256
	@Thickness 3.17 mm, Temperature 22.8 Â°C	@Thickness 0.125 in, Temperature 73.0 Â°F	

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