

## Techmer ES Elastoblend® PBT IM

Category : Polymer , Thermoplastic , Polyester, TP , Polybutylene Terephthalate (PBT) , Polybutylene Terephthalate (PBT), Impact Grade

### Material Notes:

Availability: North America Forms: Pellets Additive: Impact Modifier Features: Impact Modified 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-PBT-IM.php](http://www.lookpolymers.com/polymer_Techmer-ES-Elastoblend-PBT-IM.php)

Physical Properties	Metric	English	Comments
Density	1.20 g/cc	0.0434 lb/in <sup>3</sup>	ASTM D792
Water Absorption	0.10 % @Time 86400 sec	0.10 % @Time 24.0 hour	ASTM D570
Linear Mold Shrinkage, Flow	0.016 cm/cm @Thickness 3.17 mm	0.016 in/in @Thickness 0.125 in	ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	104	104	ASTM D785
Tensile Strength	37.9 MPa	5500 psi	ASTM D638
Elongation at Yield	130 %	130 %	ASTM D638
Flexural Yield Strength	65.5 MPa	9500 psi	ASTM D790
Flexural Modulus	1.72 GPa	250 ksi	ASTM D790
Izod Impact, Notched	8.54 J/cm @Thickness 3.17 mm	16.0 ft-lb/in @Thickness 0.125 in	ASTM D256
Izod Impact, Unnotched	NB @Thickness 3.17 mm	NB @Thickness 0.125 in	ASTM D256

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	86.4 Åµm/m-Å°C	48.0 Åµin/in-Å°F	ASTM D696
Deflection Temperature at 0.46 MPa (66 psi)	110 Å°C	230 Å°F	Unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	70.0 Å°C	158 Å°F	Unannealed; ASTM D648

Electrical Properties	Metric	English	Comments
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Volume Resistivity Electrical Properties	5.00e+16 ohm-cm Metric	5.00e+16 ohm-cm English	ASTM D257 Comments
Dielectric Strength	15.7 kV/mm	400 kV/in	Method A (Short-Time); ASTM D149

## Contact Songhan Plastic Technology Co.,Ltd.

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