

Techmer ES Plastiblend® PBT/ABS GF/M40 FR 40/40% Glass/Mineral Filled

Category : Polymer , Thermoplastic , ABS Polymer , ABS/Polyester Alloy + GF , Polyester, TP

Material Notes:

Availability: North America
Forms: Pellets
Filler/Reinforcement: Glass/Mineral Fiber Reinforcement, 40/40% Filler by Weight
Features: Flame Retardant
Information provided by TP Composites, Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Techmer-ES-Plastiblend-PBTABS-GFM40-FR-4040-GlassMineral-Filled.php

Physical Properties	Metric	English	Comments
Density	1.61 g/cc	0.0582 lb/in ³	ASTM D792
Water Absorption	0.12 % @Time 86400 sec	0.12 % @Time 24.0 hour	ASTM D570

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	111 MPa	16100 psi	ASTM D638
Elongation at Yield	1.5 %	1.5 %	ASTM D638
Flexural Yield Strength	162 MPa	23500 psi	ASTM D790
Flexural Modulus	12.1 GPa	1760 ksi	ASTM D790
Izod Impact, Notched	0.747 J/cm @Thickness 3.17 mm	1.40 ft-lb/in @Thickness 0.125 in	ASTM D256
Izod Impact, Unnotched	5.07 J/cm @Thickness 3.17 mm	9.50 ft-lb/in @Thickness 0.125 in	ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	205 Â°C	401 Â°F	Unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	155 Â°C	311 Â°F	Unannealed; ASTM D648
Flammability, UL94	V-0 @Thickness 1.50 mm	V-0 @Thickness 0.0591 in	

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+16 ohm-cm	1.00e+16 ohm-cm	ASTM D257
Dielectric Strength	17.7 kV/mm	450 kV/in	Method A (Short-Time); ASTM D149

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