

Techmer ES HiFill[®] PP GF/M40 CC BK 40% Glass/Mineral Filled

Category : Polymer , Thermoplastic , Polypropylene (PP) , Polypropylene, Glass/Mineral Reinforced

Material Notes:

Availability: North America Forms: Pellets Filler/Reinforcement: Glass/Mineral, 40% Filler by Weight Features: Chemically

Coupled Appearance: Black Information provided by TP Composites, Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Techmer-ES-HiFill-PP-GFM40-CC-BK-40-GlassMineral-Filled.php

Physical Properties	Metric	English	Comments
Density	1.23 g/cc	0.0444 lb/in ³	ASTM D792
Water Absorption	0.040 % @Time 86400 sec	0.040 % @Time 24.0 hour	ASTM D570

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	110	110	ASTM D785
Tensile Strength, Yield	48.3 MPa	7000 psi	ASTM D638
Elongation at Yield	5.0 %	5.0 %	ASTM D638
Flexural Yield Strength	79.3 MPa	11500 psi	ASTM D790
Flexural Modulus	5.52 GPa	800 ksi	ASTM D790
Izod Impact, Notched	0.587 J/cm @Thickness 3.17 mm	1.10 ft-lb/in @Thickness 0.125 in	ASTM D256
Izod Impact, Unnotched	5.34 J/cm @Thickness 3.17 mm	10.0 ft-lb/in @Thickness 0.125 in	ASTM D256

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	39.6 Åm/m-Å°C	22.0 Åin/in-Å°F	ASTM D696
Melting Point	163 Å°C	325 Å°F	
Deflection Temperature at 0.46 MPa (66 psi)	154 Å°C	310 Å°F	Unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	149 Å°C	300 Å°F	Unannealed; ASTM D648
Flammability, UL94	HB	HB	

Electrical Properties	Metric	English	Comments
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Electrical Properties	Metric 17 ohm-cm	English 7 ohm-cm	Comments
Dielectric Strength	20.5 kV/mm	520 kV/in	Method A (Short-Time); ASTM D149

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China