

Techmer ES HiFill[®] PA6 GF40 L 40% Milled Glass

Category : Polymer , Thermoplastic , Nylon , Nylon 6

Material Notes:

Availability: North America Forms: Pellets Filler/Reinforcement: Milled Glass Fiber, 30% Filler by Weight Additive: Lubricant Features:

Lubricated Appearance: Natural Color Information provided by TP Composites, Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Techmer-ES-HiFill-PA6-GF40-L-40-Milled-Glass.php

Physical Properties	Metric	English	Comments
Density	1.48 g/cc	0.0535 lb/in ³	ASTM D792
Water Absorption	0.95 % @Time 86400 sec	0.95 % @Time 24.0 hour	ASTM D570
Linear Mold Shrinkage, Flow	0.0070 cm/cm @Thickness 3.17 mm	0.0070 in/in @Thickness 0.125 in	ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	121	121	ASTM D785
Tensile Strength, Yield	86.2 MPa	12500 psi	ASTM D638
Elongation at Break	3.0 %	3.0 %	ASTM D638
Flexural Strength	131 MPa	19000 psi	ASTM D790
Flexural Modulus	5.72 GPa	830 ksi	ASTM D790
Izod Impact, Notched	0.534 J/cm @Thickness 3.17 mm	1.00 ft-lb/in @Thickness 0.125 in	ASTM D256
Izod Impact, Unnotched	3.20 J/cm @Thickness 3.17 mm	6.00 ft-lb/in @Thickness 0.125 in	ASTM D256

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	7.20 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$	4.00 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$	ASTM D696
Deflection Temperature at 0.46 MPa (66 psi)	204 $\text{Å}^\circ\text{C}$	400 $\text{Å}^\circ\text{F}$	Unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	119 $\text{Å}^\circ\text{C}$	247 $\text{Å}^\circ\text{F}$	Unannealed; ASTM D648

Electrical Properties	Metric	English	Comments
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Volume Resistivity Electrical Properties	1.00e+13 ohm-cm Metric	1.00e+13 ohm-cm English	ASTM D257 Comments
Dielectric Strength	18.1 kV/mm	460 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