

Techmer ES HiFill[®] PA6/6 WM40 IM HS 40% Mineral Filled

Category : Polymer , Thermoplastic , Nylon , Nylon 66 , Nylon 66, 40% Mineral Filled , Nylon 66, Heat Stabilized , Nylon 66, Mineral Filled, Impact Grade

Material Notes:

Availability: North America Forms: Pellets Filler/Reinforcement: Mineral Filler, 40% Filler by Weight Additive: Heat Stabilizer and Impact

Modifier Features: Heat Stabilized and 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-HiFill-PA66-WM40-IM-HS-40-Mineral-Filled.php

Physical Properties	Metric	English	Comments
Density	1.47 g/cc	0.0531 lb/in ³	ASTM D792
Water Absorption	0.70 %	0.70 %	ASTM D570
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Flow	0.0090 cm/cm	0.0090 in/in	ASTM D955
	@Thickness 3.17 mm	@Thickness 0.125 in	

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	121	121	ASTM D785
Tensile Strength, Yield	91.0 MPa	13200 psi	ASTM D638
Elongation at Break	15 %	15 %	ASTM D638
Flexural Strength	138 MPa	20000 psi	ASTM D790
Flexural Modulus	5.58 GPa	810 ksi	ASTM D790
Izod Impact, Notched	0.694 J/cm	1.30 ft-lb/in	ASTM D256
	@Thickness 3.17 mm	@Thickness 0.125 in	
Izod Impact, Unnotched	7.47 J/cm	14.0 ft-lb/in	ASTM D256
	@Thickness 3.17 mm	@Thickness 0.125 in	

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)	232 $\text{Å}^\circ\text{C}$	450 $\text{Å}^\circ\text{F}$	Unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	90.6 $\text{Å}^\circ\text{C}$	195 $\text{Å}^\circ\text{F}$	Unannealed; ASTM D648

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+13 ohm-cm	1.00e+13 ohm-cm	ASTM D257
Dielectric Strength	18.1 kV/mm	460 kV/in	Method A (Short-Time); ASTM D149

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