

Techmer ES HiFill[®] PA12 E HS

Category : Polymer , Thermoplastic , Nylon , Nylon 12

Material Notes:

Availability: North America Forms: Pellets Additive: Heat Stabilizer Features: Heat Stabilized Processing Method: Extrusion Information provided by TP Composites, Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Techmer-ES-HiFill-PA12-E-HS.php

Physical Properties	Metric	English	Comments
Density	1.02 g/cc	0.0368 lb/in ³	ASTM D792
Water Absorption	0.70 % @Time 86400 sec	0.70 % @Time 24.0 hour	ASTM D570
Linear Mold Shrinkage, Flow	0.0080 cm/cm @Thickness 3.17 mm	0.0080 in/in @Thickness 0.125 in	ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	106	106	ASTM D785
Tensile Strength, Yield	65.5 MPa	9500 psi	ASTM D638
Elongation at Break	20 %	20 %	ASTM D638
Flexural Strength	75.8 MPa	11000 psi	ASTM D790
Flexural Modulus	1.72 GPa	250 ksi	ASTM D790
Izod Impact, Notched	0.374 J/cm @Thickness 3.17 mm	0.700 ft-lb/in @Thickness 0.125 in	ASTM D256

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	126 $\mu\text{m/m}\cdot\text{Å}^\circ\text{C}$	70.0 $\mu\text{in/in}\cdot\text{Å}^\circ\text{F}$	ASTM D696
Deflection Temperature at 0.46 MPa (66 psi)	132 $\text{Å}^\circ\text{C}$	270 $\text{Å}^\circ\text{F}$	Unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	77.8 $\text{Å}^\circ\text{C}$	172 $\text{Å}^\circ\text{F}$	Unannealed; ASTM D648

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+11 ohm-cm	1.00e+11 ohm-cm	ASTM D257
Dielectric Strength	25.6 kV/mm	650 kV/in	Method A (Short-Time); ASTM D149

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