

Techmer ES HiFill® PA11 GL8 HS UV

Category : Polymer , Thermoplastic , Nylon , Nylon 11

Material Notes:

Availability: North America Forms: Pellets Additive: Heat Stabilizer, Graphite Powder Lubricant and UV Stabilizer Features: Heat Stabilized.

Good UV Resistance and 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-PA11-GL8-HS-UV.php

Physical Properties	Metric	English	Comments
Density	1.03 g/cc	0.0372 lb/in ³	ASTM D792
Water Absorption	0.20 % @Time 86400 sec	0.20 % @Time 24.0 hour	ASTM D570
Linear Mold Shrinkage, Flow	0.015 cm/cm @Thickness 3.17 mm	0.015 in/in @Thickness 0.125 in	ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	108	108	ASTM D785
Tensile Strength, Yield	62.1 MPa	9000 psi	ASTM D638
Elongation at Break	10 %	10 %	ASTM D638
Flexural Strength	75.8 MPa	11000 psi	ASTM D790
Flexural Modulus	1.10 GPa	160 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

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	126 Âµm/m-Â°C	70.0 Âµin/in-Â°F	ASTM D696
Deflection Temperature at 0.46 MPa (66 psi)	45.0 Â°C	113 Â°F	Unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	23.9 Â°C	75.0 Â°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	17.7 kV/mm	450 kV/in	Method A (Short-Time); ASTM D149

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