

Techmer ES HiFill® PA4/6 CF30 30% Carbon Filled (Dry)

Category : Polymer , Thermoplastic , Nylon , Nylon 46

Material Notes:

Availability: North America
 Forms: Pellets
 Filler/Reinforcement: Carbon Fiber Reinforcement, 30% Filler by Weight
 Additive: Heat Stabilizer
 Features: Heat Stabilized
 Information provided by TP Composites, Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Techmer-ES-HiFill-PA46-CF30-30-Carbon-Filled-Dry.php

Physical Properties	Metric	English	Comments
Density	1.31 g/cc	0.0473 lb/in ³	ASTM D792
Water Absorption	1.9 % @Time 86400 sec	1.9 % @Time 24.0 hour	ASTM D570
Linear Mold Shrinkage, Flow	0.0020 cm/cm @Thickness 3.17 mm	0.0020 in/in @Thickness 0.125 in	ASTM D955

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	228 MPa	33000 psi	ASTM D638
Elongation at Break	1.5 %	1.5 %	ASTM D638
Flexural Strength	365 MPa	53000 psi	ASTM D790
Flexural Modulus	16.5 GPa	2400 ksi	ASTM D790
Izod Impact, Notched	0.801 J/cm @Thickness 3.17 mm	1.50 ft-lb/in @Thickness 0.125 in	ASTM D256

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	19.8 Åµm/m-Å°C	11.0 Åµin/in-Å°F	ASTM D696
Deflection Temperature at 1.8 MPa (264 psi)	285 Å°C	545 Å°F	Unannealed; ASTM D648
Flammability, UL94	HB	HB	

Electrical Properties	Metric	English	Comments
Volume Resistivity	10 ohm-cm	10 ohm-cm	ASTM D257

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