

Techmer ES HiFill® PA6 CF40 40% Carbon Fiber Filled

Category : Polymer , Thermoplastic , Nylon , Nylon 6 , Nylon 6, Carbon Fiber Filled

Material Notes:

Availability: North America Forms: Pellets Filler/Reinforcement: Carbon Fiber Reinforcement, 40% Filler by Weight Appearance: Black and Natural Color Information provided by TP Composites, Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Techmer-ES-HiFill-PA6-CF40-40-Carbon-Fiber-Filled.php

Physical Properties	Metric	English	Comments
Density	1.32 g/cc	0.0477 lb/in ³	ASTM D792
Water Absorption	0.50 % @Time 86400 sec	0.50 % @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
Hardness, Rockwell R	115	115	ASTM D785
Tensile Strength, Yield	221 MPa	32000 psi	ASTM D638
Elongation at Break	1.5 %	1.5 %	ASTM D638
Flexural Strength	324 MPa	47000 psi	ASTM D790
Flexural Modulus	20.7 GPa	3000 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 Åm/m-ÅC	11.0 Åin/in-ÅF	ASTM D696
Deflection Temperature at 0.46 MPa (66 psi)	216 ÅC	420 ÅF	Unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	210 ÅC	410 ÅF	Unannealed; ASTM D648

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