

**Techmer ES HiFill<sup>®</sup> PA6/12 CF30 BK 30% Carbon Filled**

Category : Polymer , Thermoplastic , Nylon , Nylon 612 , Nylon 612, Carbon Fiber Filler

**Material Notes:**

Availability: North America  
 Forms: Pellets  
 Filler/Reinforcement: Carbon Fiber Reinforcement, 50% Filler by Weight  
 Appearance: Black and Natural Color  
 TPCI# 9814104  
 Information provided by TP Composites, Inc.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Techmer-ES-HiFill-PA612-CF30-BK-30-Carbon-Filled.php](http://www.lookpolymers.com/polymer_Techmer-ES-HiFill-PA612-CF30-BK-30-Carbon-Filled.php)

Physical Properties	Metric	English	Comments
Density	1.22 g/cc	0.0441 lb/in <sup>3</sup>	ASTM D792
Water Absorption	0.16 % @Time 86400 sec	0.16 % @Time 24.0 hour	ASTM D570
Linear Mold Shrinkage, Flow	0.0030 cm/cm @Thickness 3.17 mm	0.0030 in/in @Thickness 0.125 in	ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	118	118	ASTM D785
Tensile Strength, Yield	200 MPa	29000 psi	ASTM D638
Elongation at Break	2.2 %	2.2 %	ASTM D638
Flexural Strength	303 MPa	44000 psi	ASTM D790
Flexural Modulus	15.9 GPa	2300 ksi	ASTM D790
Izod Impact, Notched	1.07 J/cm @Thickness 3.17 mm	2.00 ft-lb/in @Thickness 0.125 in	ASTM D256

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	19.8 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$	11.0 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$	ASTM D696
Deflection Temperature at 0.46 MPa (66 psi)	221 $\text{Å}^\circ\text{C}$	430 $\text{Å}^\circ\text{F}$	Unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	216 $\text{Å}^\circ\text{C}$	420 $\text{Å}^\circ\text{F}$	Unannealed; ASTM D648

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