

## Techmer ES HiFill<sup>®</sup> PA6 0390 BK

Category : Polymer , Thermoplastic , Nylon , Nylon 6

### Material Notes:

Availability: North America Forms: Pellets Features: High Specific Gravity Appearance: Black Information provided by TP Composites, Inc.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Techmer-ES-HiFill-PA6-0390-BK.php](http://www.lookpolymers.com/polymer_Techmer-ES-HiFill-PA6-0390-BK.php)

Physical Properties	Metric	English	Comments
Density	3.90 g/cc	0.141 lb/in <sup>3</sup>	ASTM D792
Water Absorption	0.10 %	0.10 %	ASTM D570
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Flow	0.0020 cm/cm	0.0020 in/in	ASTM D955
	@Thickness 3.17 mm	@Thickness 0.125 in	

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	44.8 MPa	6500 psi	ASTM D638
Elongation at Break	1.0 %	1.0 %	ASTM D638
Flexural Strength	48.3 MPa	7000 psi	ASTM D790
Flexural Modulus	6.89 GPa	1000 ksi	ASTM D790
Izod Impact, Notched	0.374 J/cm	0.700 ft-lb/in	ASTM D256
	@Thickness 3.17 mm	@Thickness 0.125 in	

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	39.6 $\mu\text{m/m-}^\circ\text{C}$	22.0 $\mu\text{in/in-}^\circ\text{F}$	ASTM D696
Deflection Temperature at 0.46 MPa (66 psi)	174 $^\circ\text{C}$	345 $^\circ\text{F}$	Unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	167 $^\circ\text{C}$	333 $^\circ\text{F}$	Unannealed; ASTM D648

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.0 - 100 ohm-cm	1.0 - 100 ohm-cm	ASTM D257

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