

**Techmer ES HiFill<sup>®</sup> PA6 0500**

Category : Polymer , Thermoplastic , Nylon , Nylon 6

**Material Notes:**

Availability: North America Forms: Pellets Filler/Reinforcement: Unspecified Filler/Reinfor Features: High Specific Gravity Processing

Method: Injection Molding Information provided by TP Composites, Inc.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Techmer-ES-HiFill-PA6-0500.php](http://www.lookpolymers.com/polymer_Techmer-ES-HiFill-PA6-0500.php)

Physical Properties	Metric	English	Comments
Density	5.02 g/cc	0.181 lb/in <sup>3</sup>	ASTM D792
Water Absorption	0.10 % @Time 86400 sec	0.10 % @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
Tensile Strength, Yield	46.2 MPa	6700 psi	ASTM D638
Elongation at Break	1.0 %	1.0 %	ASTM D638
Flexural Strength	49.0 MPa	7100 psi	ASTM D790
Flexural Modulus	7.58 GPa	1100 ksi	ASTM D790
Izod Impact, Notched	0.534 J/cm @Thickness 3.17 mm	1.00 ft-lb/in @Thickness 0.125 in	ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	124 °C	255 °F	Unannealed; ASTM D648

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+13 - 1.00e+15 ohm-cm	1.00e+13 - 1.00e+15 ohm-cm	ASTM D257

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