

**Techmer ES HiFill<sup>®</sup> PA6 0301**

Category : Polymer , Thermoplastic , Nylon , Nylon 6

**Material Notes:**

Availability: North America Forms: Pellets Filler/Reinforcement: Unspecified Filler/Reinfor Features: High Density 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-PA6-0301.php](http://www.lookpolymers.com/polymer_Techmer-ES-HiFill-PA6-0301.php)

Physical Properties	Metric	English	Comments
Density	2.99 g/cc	0.108 lb/in <sup>3</sup>	ASTM D792
Water Absorption	0.30 % @Time 86400 sec	0.30 % @Time 24.0 hour	ASTM D570
Linear Mold Shrinkage, Flow	0.0050 cm/cm @Thickness 3.17 mm	0.0050 in/in @Thickness 0.125 in	ASTM D955

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	57.9 MPa	8400 psi	ASTM D638
Elongation at Break	4.0 %	4.0 %	ASTM D638
Flexural Strength	89.6 MPa	13000 psi	ASTM D790
Flexural Modulus	7.58 GPa	1100 ksi	ASTM D790
Izod Impact, Notched	1.23 J/cm @Thickness 3.17 mm	2.30 ft-lb/in @Thickness 0.125 in	ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	152 °C	305 °F	Unannealed; ASTM D648

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