

**Techmer ES HiFill<sup>®</sup> TPU 1000**

Category : Polymer , Thermoplastic , Polyurethane, TP

**Material Notes:**

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

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Techmer-ES-HiFill-TPU-1000.php](http://www.lookpolymers.com/polymer_Techmer-ES-HiFill-TPU-1000.php)

Physical Properties	Metric	English	Comments
Density	10.0 g/cc	0.361 lb/in <sup>3</sup>	ASTM D792
Water Absorption	0.020 %	0.020 %	ASTM D570
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Flow	0.0040 cm/cm	0.0040 in/in	ASTM D955
	@Thickness 3.17 mm	@Thickness 0.125 in	

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	60	60	ASTM D785
Tensile Strength, Yield	13.8 MPa	2000 psi	ASTM D638
Elongation at Break	20 %	20 %	ASTM D638
Flexural Strength	8.96 MPa	1300 psi	ASTM D790
Flexural Modulus	0.483 GPa	70.0 ksi	ASTM D790
Izod Impact, Notched	2.67 J/cm	5.00 ft-lb/in	ASTM D256
	@Thickness 3.17 mm	@Thickness 0.125 in	

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	79.4 Å°C	175 Å°F	Unannealed; ASTM D648

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