

**Techmer ES HiFill® PA6 GF33 UG HS BK 33% Glass Filled**

Category : Polymer , Thermoplastic , Nylon , Nylon 6 , Nylon 6 , 30% Glass Fiber Filled , Nylon 6 , Heat Stabilized

**Material Notes:**

Availability: North America  
 Forms: Pellets  
 Filler/Reinforcement: Glass Fiber Reinforcement, 33% Filler by Weight  
 Additive: Lubricant and Heat Stabilizer  
 Features: General Purpose, Lubricated and Heat Stabilized  
 Appearance: Black  
 TPCI# 8943102  
 Information provided by TP Composites, Inc.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Techmer-ES-HiFill-PA6-GF33-UG-HS-BK-33-Glass-Filled.php](http://www.lookpolymers.com/polymer_Techmer-ES-HiFill-PA6-GF33-UG-HS-BK-33-Glass-Filled.php)

Physical Properties	Metric	English	Comments
Density	1.38 g/cc	0.0499 lb/in <sup>3</sup>	ASTM D792
Water Absorption	1.1 %	1.1 %	ASTM D570
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Flow	0.0030 cm/cm	0.0030 in/in	ASTM D955
	@Thickness 3.17 mm	@Thickness 0.125 in	

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	121	121	ASTM D785
Tensile Strength, Yield	169 MPa	24500 psi	ASTM D638
Elongation at Break	3.0 %	3.0 %	ASTM D638
Flexural Strength	276 MPa	40000 psi	ASTM D790
Flexural Modulus	8.96 GPa	1300 ksi	ASTM D790
Izod Impact, Notched	1.07 J/cm	2.00 ft-lb/in	ASTM D256
	@Thickness 3.17 mm	@Thickness 0.125 in	

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	37.8 Åµm/m-Å°C	21.0 Åµin/in-Å°F	ASTM D696
Deflection Temperature at 0.46 MPa (66 psi)	216 Å°C	420 Å°F	Unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	210 Å°C	410 Å°F	Unannealed; ASTM D648

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