

## Techmer ES HiFill® PPA GF33 FR HS L 33% Glass Filled

Category : Polymer , Thermoplastic , Polyphthalamide (PPA) , Polyphthalamide (PPA), 30% Glass Fiber Reinforced

### Material Notes:

Availability: North America  
Forms: Pellets  
Filler/Reinforcement: Glass Fiber Reinforcement, 33% Filler by Weight  
Additive: Heat Stabilizer and Lubricant  
Features: Heat Stabilized, Flame Retardant and Lubricated  
Information provided by TP Composites, Inc.

Order this product through the following link:

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

Physical Properties	Metric	English	Comments
Density	1.68 g/cc	0.0607 lb/in <sup>3</sup>	ASTM D792
Water Absorption	0.18 % @Time 86400 sec	0.18 % @Time 24.0 hour	ASTM D570
Linear Mold Shrinkage, Flow	0.0060 cm/cm @Thickness 3.17 mm	0.0060 in/in @Thickness 0.125 in	ASTM D955

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	165 MPa	24000 psi	ASTM D638
Elongation at Break	1.8 %	1.8 %	ASTM D638
Flexural Yield Strength	228 MPa	33000 psi	ASTM D790
Flexural Modulus	12.4 GPa	1800 ksi	ASTM D790
Izod Impact, Notched	0.641 J/cm @Thickness 3.17 mm	1.20 ft-lb/in @Thickness 0.125 in	ASTM D256

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	59.4 Åµm/m-Å°C	33.0 Åµin/in-Å°F	ASTM D696
Deflection Temperature at 1.8 MPa (264 psi)	299 Å°C	570 Å°F	Unannealed; ASTM D648
Flammability, UL94	V-0	V-0	

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+16 ohm-cm	1.00e+16 ohm-cm	ASTM D257
Dielectric Strength	20.9 kV/mm	530 kV/in	Method A (Short-Time); ASTM D149

## **Contact Songhan Plastic Technology Co.,Ltd.**

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