

## Techmer ES HiFill<sup>®</sup> PP 0475 Polypropylene

Category : Polymer , Thermoplastic , Polypropylene (PP)

**Material Notes:**

Availability: North America Forms: Pellets Filler/Reinforcement: Unspecified Filler/Reinfor Information provided by TP Composites, Inc.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Techmer-ES-HiFill-PP-0475-Polypropylene.php](http://www.lookpolymers.com/polymer_Techmer-ES-HiFill-PP-0475-Polypropylene.php)

Physical Properties	Metric	English	Comments
Density	4.75 g/cc	0.172 lb/in <sup>3</sup>	ASTM D792
Water Absorption	0.050 %	0.050 %	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	120	120	ASTM D785
Tensile Strength, Yield	19.3 MPa	2800 psi	ASTM D638
Elongation at Break	1.0 %	1.0 %	ASTM D638
Flexural Strength	22.1 MPa	3200 psi	ASTM D790
Flexural Modulus	6.21 GPa	900 ksi	ASTM D790
Izod Impact, Notched	0.267 J/cm	0.500 ft-lb/in	ASTM D256
	@Thickness 3.17 mm	@Thickness 0.125 in	

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	34.2 $\mu\text{m/m}\cdot\text{Å}^\circ\text{C}$	19.0 $\mu\text{in/in}\cdot\text{Å}^\circ\text{F}$	ASTM D696
Deflection Temperature at 0.46 MPa (66 psi)	116 $\text{Å}^\circ\text{C}$	240 $\text{Å}^\circ\text{F}$	Unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	54.4 $\text{Å}^\circ\text{C}$	130 $\text{Å}^\circ\text{F}$	Unannealed; ASTM D648

## Contact Songhan Plastic Technology Co.,Ltd.

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