

## Techmer ES HiFill FR<sup>®</sup> PP CO FR-N

Category : Polymer , Thermoplastic , Polypropylene (PP) , Polypropylene Copolymer , Polypropylene, Flame Retardant , Polypropylene, Impact Modified; Molded/Extruded

### Material Notes:

Availability: North America Forms: Pellets Features: Flame Retardant, High Impact Resistance and Copolymer Information provided by TP Composites, Inc.

Order this product through the following link:

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

Physical Properties	Metric	English	Comments
Density	0.980 g/cc	0.0354 lb/in <sup>3</sup>	ASTM D792
Linear Mold Shrinkage, Flow	0.010 cm/cm @Thickness 3.17 mm	0.010 in/in @Thickness 0.125 in	ASTM D955
Melt Flow	10 g/10 min	10 g/10 min	ASTM D1238

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	17.2 MPa	2500 psi	ASTM D638
Elongation at Yield	350 %	350 %	ASTM D638
Flexural Yield Strength	22.8 MPa	3300 psi	ASTM D790
Flexural Modulus	0.827 GPa	120 ksi	ASTM D790
Izod Impact, Notched	3.20 J/cm @Thickness 3.17 mm	6.00 ft-lb/in @Thickness 0.125 in	ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	104 Â°C	220 Â°F	Unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	82.2 Â°C	180 Â°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	17.7 kV/mm	450 kV/in	Method A (Short-Time); ASTM D149

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