

Techmer ES HiFill FR[®] PP CO E FR

Category : Polymer , Thermoplastic , Polypropylene (PP) , Polypropylene Copolymer , Polypropylene, Extrusion Grade , Polypropylene, Flame Retardant

Material Notes:

Availability: North America Forms: Pellets Features: Flame Retardant and Copolymer Processing Method: Extruded Information provided by TP Composites, Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Techmer-ES-HiFill-FR-PP-CO-E-FR.php

Physical Properties	Metric	English	Comments
Density	1.33 g/cc	0.0480 lb/in ³	ASTM D792
Water Absorption	0.020 % @Time 86400 sec	0.020 % @Time 24.0 hour	ASTM D570
Linear Mold Shrinkage, Flow	0.016 cm/cm @Thickness 3.17 mm	0.016 in/in @Thickness 0.125 in	ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	80	80	ASTM D785
Tensile Strength	20.7 MPa	3000 psi	ASTM D638
Elongation at Yield	100 %	100 %	ASTM D638
Flexural Yield Strength	31.0 MPa	4500 psi	ASTM D790
Flexural Modulus	1.03 GPa	150 ksi	ASTM D790
Izod Impact, Notched	1.07 J/cm @Thickness 3.17 mm	2.00 ft-lb/in @Thickness 0.125 in	ASTM D256

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	64.8 Åµm/m-Å°C	36.0 Åµin/in-Å°F	ASTM D696
Deflection Temperature at 1.8 MPa (264 psi)	57.2 Å°C	135 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
Surface Resistance	1.00e+14 ohm	1.00e+14 ohm	ASTM D257

Electrical Properties	Metric	English	Comments
Electric Strength	100 kV/mm	5000 V/in	Method A (Short-Time); ASTM D149

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