

Techmer ES HiFill® PP 0159 B 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-0159-B-Polypropylene.php

Physical Properties	Metric	English	Comments
Density	1.59 g/cc	0.0574 lb/in ³	ASTM D792
Water Absorption	0.050 % @Time 86400 sec	0.050 % @Time 24.0 hour	ASTM D570
Linear Mold Shrinkage, Flow	0.015 cm/cm @Thickness 3.17 mm	0.015 in/in @Thickness 0.125 in	ASTM D955
Melt Flow	10 g/10 min @Load 2.16 kg, Temperature 230 °C	10 g/10 min @Load 4.76 lb, Temperature 446 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	95	95	ASTM D785
Tensile Strength, Yield	18.6 MPa	2700 psi	ASTM D638
Elongation at Break	20 %	20 %	ASTM D638
Flexural Strength	34.5 MPa	5000 psi	ASTM D790
Flexural Modulus	2.69 GPa	390 ksi	ASTM D790
Izod Impact, Notched	0.267 J/cm @Thickness 3.17 mm	0.500 ft-lb/in @Thickness 0.125 in	ASTM D256

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	34.2 µm/m-°C	19.0 µin/in-°F	ASTM D696
Deflection Temperature at 0.46 MPa (66 psi)	107 °C	225 °F	Unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	62.8 °C	145 °F	Unannealed; ASTM D648

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