

Techmer ES Plastiblend® PA6 GF20 RM BK Nylon 6

Category : Polymer , Thermoplastic , Nylon , Nylon 6 , Nylon 6 , 20% Glass Fiber Filled

Material Notes:

Availability: North America Forms: Pellets Filler/Reinforcement: Glass Fiber Reinforcement Processing Method: Injection

Molding Information provided by TP Composites, Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Techmer-ES-Plastiblend-PA6-GF20-RM-BK-Nylon-6.php

Physical Properties	Metric	English	Comments
Density	1.28 g/cc	0.0462 lb/in ³	ASTM D792
Water Absorption	0.90 % @Time 86400 sec	0.90 % @Time 24.0 hour	ASTM D570
Linear Mold Shrinkage, Flow	0.0040 cm/cm @Thickness 3.17 mm	0.0040 in/in @Thickness 0.125 in	ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	115	115	ASTM D785
Tensile Strength	13.8 MPa	2000 psi	ASTM D638
Elongation at Yield	3.5 %	3.5 %	ASTM D638
Flexural Yield Strength	207 MPa	30000 psi	ASTM D790
Flexural Modulus	6.89 GPa	1000 ksi	ASTM D790
Izod Impact, Notched	0.801 J/cm @Thickness 3.17 mm	1.50 ft-lb/in @Thickness 0.125 in	ASTM D256

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	19.8 Åµm/m-Å°C	11.0 Åµin/in-Å°F	ASTM D696
Deflection Temperature at 1.8 MPa (264 psi)	204 Å°C	400 Å°F	Unannealed; ASTM D648

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