

Techmer ES Plastiblend® PA6/ABS 1120 GF20 20% Glass Filled

Category : Polymer , Thermoplastic , ABS Polymer , Acrylonitrile Butadiene Styrene (ABS)/Nylon Blend, Glass Reinforced , Nylon

Material Notes:

Availability: North America Forms: Pellets Filler/Reinforcement: Glass Fiber Reinforcement, 20% Filler by Weight Additive: Impact

Modifier Features: Impact Modified Appearance: Natural Color Information provided by TP Composites, Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Techmer-ES-Plastiblend-PA6ABS-1120-GF20-20-Glass-Filled.php

Physical Properties	Metric	English	Comments
Density	1.23 g/cc	0.0444 lb/in ³	ASTM D792
Water Absorption	0.70 % @Time 86400 sec	0.70 % @Time 24.0 hour	ASTM D570
Linear Mold Shrinkage, Flow	0.0030 cm/cm @Thickness 3.17 mm	0.0030 in/in @Thickness 0.125 in	ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	105	105	ASTM D785
Tensile Strength, Yield	96.5 MPa	14000 psi	ASTM D638
Elongation at Break	4.0 %	4.0 %	ASTM D638
Flexural Strength	141 MPa	20500 psi	ASTM D790
Flexural Modulus	5.17 GPa	750 ksi	ASTM D790
Izod Impact, Notched	1.44 J/cm @Thickness 3.17 mm	2.70 ft-lb/in @Thickness 0.125 in	ASTM D256
Izod Impact, Unnotched	NB @Thickness 3.17 mm	NB @Thickness 0.125 in	ASTM D256

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	41.4 Åµm/m-Å°C	23.0 Åµin/in-Å°F	ASTM D696
Deflection Temperature at 0.46 MPa (66 psi)	209 Å°C	409 Å°F	Unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	150 Å°C	302 Å°F	Unannealed; ASTM D648
Flammability, UL94	HB @Thickness 1.50 mm	HB @Thickness 0.0591 in	

Thermal Properties	Metric	English	Comments
Electrical Properties	Metric	English	Comments
Volume Resistivity	2.00e+13 ohm-cm	2.00e+13 ohm-cm	ASTM D257
Dielectric Strength	16.5 kV/mm	420 kV/in	Method A (Short-Time); ASTM D149

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