

Techmer ES HiFill® ASA 814 GY

Category : Polymer , Thermoplastic , ASA Polymer , Acrylonitrile/Styrene/Acrylate (ASA), Unreinforced, Molded

Material Notes:

Availability: North America Forms: Pellets Features: Good Weather Resistance Appearance: Gray Information provided by TP Composites, Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Techmer-ES-HiFill-ASA-814-GY.php

Physical Properties	Metric	English	Comments
Density	1.05 g/cc	0.0379 lb/in ³	ASTM D792
Water Absorption	0.35 %	0.35 %	ASTM D570
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Flow	0.0070 cm/cm	0.0070 in/in	ASTM D955
	@Thickness 3.17 mm	@Thickness 0.125 in	

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	108	108	ASTM D785
Tensile Strength, Yield	42.1 MPa	6100 psi	ASTM D638
Elongation at Break	3.0 %	3.0 %	ASTM D638
Flexural Strength	54.5 MPa	7900 psi	ASTM D790
Flexural Modulus	1.86 GPa	270 ksi	ASTM D790
Izod Impact, Notched	3.47 J/cm	6.50 ft-lb/in	ASTM D256
	@Thickness 3.17 mm	@Thickness 0.125 in	

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	99.0 Åµm/m-Å°C	55.0 Åµin/in-Å°F	ASTM D696
Deflection Temperature at 0.46 MPa (66 psi)	88.9 Å°C	192 Å°F	Unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	77.2 Å°C	171 Å°F	Unannealed; ASTM D648
Flammability, UL94	HB	HB	

Electrical Properties	Metric	English	Comments
Volume Resistivity	5.00e+13 ohm-cm	5.00e+13 ohm-cm	ASTM D257
Dielectric Strength	15.7 kV/mm	400 kV/in	Method A (Short-Time); ASTM D149

Electrical Properties	Metric	English	Comments
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