

Techmer ES HiFill FR[®] ASA FR-2A WT209

Category : Polymer , Thermoplastic , ASA Polymer

Material Notes:

Availability: North America Forms: Pellets Additive: UV Stabilizer Features: Flame Retardant, Good Toughness and Good UV

Resistance Appearance: White Information provided by TP Composites, Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Techmer-ES-HiFill-FR-ASA-FR-2A-WT209.php

Physical Properties	Metric	English	Comments
Density	1.15 g/cc	0.0415 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	38.6 MPa	5600 psi	ASTM D638
Elongation at Break	11 %	11 %	ASTM D638
Flexural Strength	38.6 MPa	5600 psi	ASTM D790
Flexural Modulus	2.14 GPa	310 ksi	ASTM D790
Izod Impact, Notched	0.801 J/cm	1.50 ft-lb/in	ASTM D256
	@Thickness 3.17 mm	@Thickness 0.125 in	

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	70.2 Åµm/m-Å°C	39.0 Åµin/in-Å°F	ASTM D696
Deflection Temperature at 0.46 MPa (66 psi)	106 Å°C	223 Å°F	Unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	103 Å°C	217 Å°F	Unannealed; ASTM D648
Flammability, UL94	V-2	V-2	
	@Thickness 3.00 mm	@Thickness 0.118 in	
	V-0	V-0	
	@Thickness 0.800 mm	@Thickness 0.0315 in	

Thermal Properties	Metric	English	Comments
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

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