

Premix Premi-Glas® 1200H-24 Polyester SMC (discontinued **)

Category : Polymer , Thermoset , Composite SMC , Polyester, TS , Thermoset Polyester Glass SMC

Material Notes:

Premi-Glas® 1200H-24 is a 24% fiberglass reinforced, thermoset, Sheet Molding Compound designed for applications where arc resistance and dielectric strength are required and UL 94 HB flame recognition properties is sufficient. Key features and benefits are: Underwriters Laboratory listed for UL 94HB flame recognition at 1.47mm minimum wall thickness. U.L flame recognized in all colors. Excellent flexural strength and flexural modulus properties. Designed for compression molding in matched metal molds. Available in fiberglass content of 10-30%. The Premi-Glas 1200-H series carries U.L 746 C recognition for use in exterior applications following ultraviolet light, water emersion and exposure testing. Data provided by Premix.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Premix-Premi-Glas-1200H-24-Polyester-SMC-nbspdiscontinued-.php

Physical Properties	Metric	English	Comments
Density	1.75 - 1.85 g/cc	0.0632 - 0.0668 lb/in³	ASTM D792
Water Absorption	0.10 - 0.30 %	0.10 - 0.30 %	ASTM D570
Linear Mold Shrinkage	0.0010 - 0.0020 cm/cm	0.0010 - 0.0020 in/in	Ambient part /mold

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	51.7 - 72.4 MPa	7500 - 10500 psi	ASTM D638
Modulus of Elasticity	10.3 - 11.7 GPa	1500 - 1700 ksi	ASTM D638
Flexural Yield Strength	124 - 165 MPa	18000 - 24000 psi	ASTM D790
Flexural Modulus	8.27 - 9.65 GPa	1200 - 1400 ksi	ASTM D790
Compressive Yield Strength	159 - 179 MPa	23000 - 26000 psi	ASTM D695
Izod Impact, Notched	4.81 - 7.47 J/cm	9.00 - 14.0 ft-lb/in	ASTM D256
Izod Impact, Unnotched	7.47 - 10.1 J/cm	14.0 - 19.0 ft-lb/in	ASTM D4812

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	>= 204 °C	>= 400 °F	ASTM D648
UL RTI, Electrical	130 °C	266 °F	U.L. 746 B
UL RTI, Mechanical with Impact	130 °C	266 °F	U.L. 746 B
Flammability, UL94	HB @Thickness >=1.47 mm	HB @Thickness >=0.0579 in	

Electrical Properties	Metric	English	Comments
Dielectric Strength	47.2 kV/mm	1200 kV/in	ASTM D149
Arc Resistance	>= 180 sec	>= 180 sec	ASTM D495

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