

Premix Premi-Glas® 1200H-20 Polyester SMC

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

Material Notes:

Premi-Glas® 1200H-20 is a 20% fiberglass reinforced, thermoset, Sheet Molding Compound designed for applications where good arc resistance and dielectric strength are required and UL 94HB flame recognition properties is sufficient. Key features and benefits are: Underwriters Laboratory 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-20-Polyester-SMC.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.70 - 1.85 g/cc	1.70 - 1.85 g/cc	
Linear Mold Shrinkage	0.0015 - 0.0025 cm/cm	0.0015 - 0.0025 in/in	Polymerization Shrinkage

Mechanical Properties	Metric	English	Comments
Tensile Strength	50.0 MPa	7250 psi	ASTM D638
Tensile Modulus	12.0 GPa	1740 ksi	ASTM D638
Flexural Strength	125 MPa	18100 psi	ASTM D790
Flexural Modulus	10.0 GPa	1450 ksi	ASTM D790
Compressive Strength	165 MPa	23900 psi	ASTM D695
Poissons Ratio	0.30	0.30	
Shear Modulus	4.60 GPa	667 ksi	Calculated
Izod Impact, Notched	5.50 J/cm	10.3 ft-lb/in	ASTM D256
Izod Impact, Unnotched	8.00 J/cm	15.0 ft-lb/in	ASTM D4812

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	35.0 µm/m-°C	19.4 µin/in-°F	Z Direction
CTE, linear, Transverse to Flow	25.0 µm/m-°C	13.9 µin/in-°F	XY Direction
Thermal Conductivity	0.300 W/m-K	2.08 BTU-in/hr-ft²-°F	
UL RTI, Electrical	130 °C	266 °F	UL 746C

UL RTI Mechanical with Impact Thermal Properties	130 °C Metric	266 °F English	UL 746C Comments
UL RTI, Mechanical without Impact	130 °C	266 °F	UL 746C
Flammability, UL94	HB @Thickness 1.50 mm	HB @Thickness 0.0591 in	

Electrical Properties	Metric	English	Comments
Dielectric Strength	15.0 kV/mm	381 kV/in	ASTM D149
Arc Resistance	180 sec	180 sec	ASTM D495

Processing Properties	Metric	English	Comments
Processing Temperature	150 °C	302 °F	Compression Molding
Clamp Pressure	3.45 - 6.89 MPa	500 - 1000 psi	Molding Pressure

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