Premix Premi-Glas® 3404 33% Glass Reinforced SMC

Category : Polymer , Thermoset , Composite SMC , Filled/Reinforced Thermoset , Polyester, TS , Thermoset Polyester Glass SMC

Material Notes:

Description: Premi-Glas® 3404 is a glass reinforced thermoset sheet molding compound designed for mass transit and high strength flame retardant applications where low smoke and flame are required. Key features and benefits: Radiant panel flame spread index of less than 35 (ASTM E-162)Smoke Density less than 25 (ASTM E-662)In-mold powder color coating capableSpecially developed for low toxicity in rail and aircraft applicationsMarket: Mass TransitInformation provided by Premix.

Order this product through the following link:
http://www.lookpolymers.com/polymer_Premix-Premi-Glas-3404-33-Glass-Reinforced-SMC.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.83 g/cc	1.83 g/cc	
Linear Mold Shrinkage	0.00030 cm/cm	0.00030 in/in	Polymerization Shrinkage

Mechanical Properties	Metric	English	Comments
Tensile Strength	90.0 MPa	13100 psi	ASTM D638
Tensile Modulus	10.0 GPa	1450 ksi	ASTM D638
Flexural Strength	190 MPa	27600 psi	ASTM D790
Flexural Modulus	10.0 GPa	1450 ksi	ASTM D790
Poissons Ratio	0.30	0.30	
Shear Modulus	3.80 GPa	551 ksi	Calculated
Izod Impact, Notched	5.50 J/cm	10.3 ft-lb/in	ASTM D256
Izod Impact, Unnotched	9.50 J/cm	17.8 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	

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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