Technical Data Sheet

Premi-Glas 2550 B-CR-SX

Engineered Composites

Product Description

Glass fiber reinforced Polyester SMC suitable for electrical, flame retardant and HVAC applications where stringent flame spread and smoke generation criteria are required.

General			
Material Status	• Commercial: Active		
Availability	• North America	• South America	
Filler / Reinforcement	• Glass Fiber and Mineral Filler		
Features	• UL Recognized – File E69414 • UL94-V0/5V @1.5mm	• (f1) – Suitable for outdoor use	• Meets Steiner Tunnel < 25 Flame Spread Index and < 50 Smoke Index
Processing Method	• This SMC product is generally intended to be compression molded in matched metal molds, typically at 300°F (150°C) and 500 to 1,000 psi (35-65 BAR) molding pressure. Strength values may be affected by the molding process.		
Resin	• Unsaturated Polyester		

Physical	Typical	Unit	Test Method
Density	2.00	g/cm^3	ASTM D792
Mold Shrinkage (RT mold/RT part)	0.00025 – 0.0015	in/in	ASTM D955
CLTE, X – Y plane	23	ppm/°C	ASTM E831
CLTE, Z plane	35	ppm/°C	ASTM E831
Poisson's Ratio	0.21		ASTM D638
Mechanical (As Cut)	**Typical**	**Unit**	**Test Method**
Tensile Modulus	1.9 E+6 (13)	psi (GPa)	ASTM D638
Tensile Strength	10,000 (70)	psi (MPa)	ASTM D638
Flexural Modulus (RT)	1.38 E+6 (9.5)	psi (GPa)	ASTM D790
Flexural Strength	24,000 (165)	psi (MPa)	ASTM D790
Impact	**Typical**	**Unit**	**Test Method**
Izod Notched Impact Strength	13 (700)	ft-lb/in (J/m)	ASTM D256
Unnotched Impact Strength	18.5 (1000)	ft-lb/in (J/m)	ASTM D4812
Thermal	**Typical**	**Unit**	**Test Method**
Thermal Conductivity, 25°C	1.3	W/m-°K	ASMT E1461
UL RTI, Electrical	221 (105)	°F (°C)	UL 746C
UL RTI, Mechanical, with Impact	266 (130)	°F (°C)	UL 746C
UL RTI, Mechanical, without Impact	266 (130)	°F (°C)	UL 746C
Flammability	**Typical**	**Unit**	**Test Method**
Flammability	0.0060 (1.50)	in (mm)	UL94 V-0 & 5V
Flame Spread Index	5		UL723 Steiner Tunnel
Smoke Developed Index	20-50		UL723 Steiner Tunnel

Notes

These are typical property values not to be construed as specification limits.

Processing Techniques

Specific recommendations for resin type and processing conditions can only be made when the end use, required properties and fabrication equipment are known.

Company Information

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