

Premi-Glas 2550[®]B-CR-SX

Sheet Molding Compound

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 style="list-style-type: none"> • (f1) - Suitable for outdoor use • UL Recognized—File E69414 • UL94-V0/5V @ 1.5 mm • 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 die 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 Composite		

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 x 10 ⁶ (13)	psi (GPa)	ASTM D638
Tensile Strength	10,000 (70)	psi (MPa)	ASTM D638
Flexural Modulus (RT)	1.38 x 10 ⁶ (9.5)	psi (GPa)	ASTM D790
Flexural Strength	24,000 (165)	psi (MPa)	ASTM D790

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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	ASTM 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	Pass 0.060 (1.5)	in (mm)	UL94 V-0 & 5V
Flame Spread Index	5		UL723 Steiner Tunnel
Smoke Developed Index	20-50		UL723 Steiner Tunnel

UL File Number E69414



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