

PremierUV™ VSH-25S

Sheet Molding Compound

PRODUCT DESCRIPTION

Glass fiber reinforced Polyester SMC suitable for applications requiring excellent weathering/UV resistance, including those that require electrical performance and flame retardance.

GENERAL

Material Status	• Commercial: Active		
Availability	• North America	• South America	
Filler/Reinforcement	• Glass Fiber and mineral filler		
Features	<ul style="list-style-type: none"> • Excellent resistance to UV exposure/outdoor weathering • Superior resistance to color fade, chalking and fiber blooms • (f1) - Suitable for outdoor use • UL Recognized—File E69414 • UL94-V0/5V @ 2.3 mm 		
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	1.73-1.79	g/cm ³	ASTM D792
Mold Shrinkage (RT mold/RT part)	0.00175-0.0025	in/in	ASTM D955

MECHANICAL (As molded)

	Typical	Unit	Test Method
Tensile Modulus	1.7 x 10 ⁶ (12)	psi (GPa)	ASTM D638
Tensile Strength	10,000 (70)	psi (MPa)	ASTM D638
Flexural Modulus (RT)	1.6 x 10 ⁶ (11)	psi (GPa)	ASTM D790
Flexural Strength	30,000 (212)	psi (MPa)	ASTM D790

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IMPACT	Typical	Unit	Test Method
Izod Notched Impact Strength	18 (900)	ft-lb/in (J/m)	ASTM D256
Unnotched Impact Strength	21 (1100)	ft-lb/in (J/m)	ASTM D4812
THERMAL	Typical	Unit	Test Method
UL RTI, Electrical	266 (130)	°F (°C)	UL 746B
UL RTI, Mechanical with Impact	266 (130)	°F (°C)	UL 746B
UL RTI, Mechanical without Impact	266 (130)	°F (°C)	UL 746B
FLAMMABILITY	Typical	Unit	Test Method
Flammability	Pass 0.091 (2.3)	in(mm)	UL94 V-0/5VA
ELECTRICAL	Typical	Unit	Test Method
Dielectric Strength	400 (16)	Volts/mil (kV/mm)	ASTM D149
Arc Track Resistance	180	seconds	ASTM D495

UL File Number E69414



For additional information, please contact:

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