

# PremierUV™ VLH-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

<b>Material Status</b>	• Commercial: Active		
<b>Availability</b>	• North America	• South America	
<b>Filler/Reinforcement</b>	• Glass Fiber and mineral filler		
<b>Features</b>	• Excellent resistance to UV exposure/outdoor weathering	• Low Shrink	• Versatile molding performance
	• Superior resistance to color fade, chalking and fiber bloom		
<b>Processing Method</b>	• 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.		
<b>Resin</b>	• Unsaturated Polyester Composite		

### PHYSICAL

	Typical	Unit	Test Method
<b>Density</b>	1.73-1.79	g/cm <sup>3</sup>	ASTM D792
<b>Mold Shrinkage (RT mold/RT part)</b>	0.00125-0.00175	in/in	ASTM D955

### MECHANICAL (As molded)

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

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<b>IMPACT</b>	<b>Typical</b>	<b>Unit</b>	<b>Test Method</b>
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

<b>FLAMMABILITY</b>	<b>Typical</b>	<b>Unit</b>	<b>Test Method</b>
Flammability	Pass 0.091 (2.3)	in (mm)	Vertical Burn

<b>ELECTRICAL</b>	<b>Typical</b>	<b>Unit</b>	<b>Test Method</b>
Dielectric Strength	400 (16)	Volts/mil (kV/mm)	ASTM D149
Arc Track Resistance	180+	seconds	ASTM D495

For additional information, please contact:

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