

# Premi-Glas® 1281-47VE

## Sheet Molding Compound

### PRODUCT DESCRIPTION

Glass fiber reinforced vinyl ester SMC suitable for structural applications

### 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>	<ul style="list-style-type: none"> <li>• Excellent stiffness to weight ratio</li> <li>• Creep resistant.</li> <li>• Excellent resistance to automotive chemicals and salt spray.</li> <li>• Excellent property retention in hot and cold environments.</li> </ul>	
<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 vinyl ester Composite	

PHYSICAL	Typical	Unit	Test Method
Density	1.80	g/cm <sup>3</sup>	ASTM D792
Mold Shrinkage (RT mold/RT part)	0.00075	in/in	ASTM D955
CLTE, X-Y plane	20	ppm/°C	ASTM E831
CLTE, Z plane	35	ppm/°C	ASTM E831
Poisson's Ratio	0.33		ASTM D638

MECHANICAL (As cut)	Typical	Unit	Test Method
Tensile Modulus	1.9 x 10 <sup>6</sup> (13)	psi (GPa)	ASTM D638
Tensile Strength	20,500 (140)	psi (MPa)	ASTM D638
Tensile Elongation	1.3%	%	ASTM D638
Flexural Modulus (RT)	2.0 x 10 <sup>6</sup> (14)	psi (GPa)	ASTM D790
Flexural Strength	39,000 (270)	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	19 (1000)	ft-lb/in (J/m)	ASTM D256
Unnotched Impact Strength	32 (1700)	ft-lb/in (J/m)	ASTM D4812

For additional information, please contact:

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Revision Date: July 19, 2016

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