

# Premi-Glas<sup>®</sup> 3501 (preliminary Technical Data Sheet)

## Sheet Molding Compound

### PRODUCT DESCRIPTION

Glass fiber reinforced Polyester SMC

### GENERAL

<b>Material Status</b>	• Developmental
<b>Availability</b>	• Currently compounded at Conneaut Ohio, USA • SMC capability to be established at ASI global facilities as demand develops
<b>Filler/Reinforcement</b>	• Glass Fiber and mineral filler
<b>Features</b>	• Fire retardant • Halogen Free • Contains bio-based content • No SVHC's • Contains recycled content
<b>Processing Method</b>	• Compression Molding, data presented are net-shape molded coupons.
<b>Resin ID (ISO 1043)</b>	• UP (GF+MD) 67 Unsaturated Polyester Composite

PHYSICAL	Typical	Unit	Test Method
Density (molded)	1.74	g/cm <sup>3</sup>	ASTM D792
Shrinkage (RT mold/RT part)	0.001-0.0025	in/in	ASTM D955

MECHANICAL	Typical	Unit	Test Method
Tensile Modulus	2.2E+6 (15,350)	psi (MPa)	ASTM D-638
Tensile Stress (Break)	10,700 (74)	psi (MPa)	ASTM D-638
Tensile Elongation	1.0-1.5	%	ASTM D-638
Flexural Modulus	1.7E+6 (11,600)	psi (MPa)	ASTM D-790
Flexural Stress (Break)	26,400 (182)	psi (MPa)	ASTM D-790

IMPACT	Typical	Unit	Test Method
Izod Notched Impact Strength 73°F (23°C)	9.6 (515)	ft-lb/in (J/m)	ASTM D256
Izod Un-Notched Impact Strength 73°F (23°C)	16.3 (870)	ft-lb/in (J/m)	ASTM D4812

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<b>FLAMMABILITY</b>	<b>Typical</b>	<b>Unit</b>	<b>Test Method</b>
<b>Flammability Classification</b>			UL 94
0.090 inch (2.3 mm)	5VA	–	
0.090 inch (2.3 mm)	V-0	–	

  

<b>ELECTRICAL</b>	<b>Typical</b>	<b>Unit</b>	<b>Test Method</b>
Arc Track Resistance	180+	seconds	ASTM D-495

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