

# PremierLT™ L701S

## Sheet Molding Compound

### PRODUCT DESCRIPTION

Glass fiber reinforced Polyester SMC suitable for structural and semi-structural lightweight 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>	• Weight savings vs. standard composites • Low-shrinkage	• Low Density	• Excellent flexural strength • Pigmentable
<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
Density	1.2	g/cm <sup>3</sup>	ASTM D792
Mold Shrinkage (RT mold/RT part)	-0.00025	in/in	ASTM D955
Water Absorption, 24 hrs, 23°C	0.20	%	ASTM D570
Glass %, Weight Factor	41	%	Internal Washout
CLTE, X-Y plane	19	ppm/°C	ASTM E831
CLTE, Z plane	56	ppm/°C	ASTM E831
Poisson's Ratio	0.33		ASTM D638

MECHANICAL (As cut)	Typical	Unit	Test Method
Tensile Strength	9,000 (65)	psi (MPa)	ASTM D638
Tensile Modulus	1.20 x 10 <sup>6</sup> (8.0)	psi (GPa)	ASTM D638
Flexural Modulus (RT)	1.00 x 10 <sup>6</sup> (7.0)	psi (GPa)	ASTM D790
Flexural Strength	23,000 (160)	psi (MPa)	ASTM D790
Flexural Secant Modulus @ 0.5 mm (RT)	1.00 x 10 <sup>6</sup> (7.0)	psi (GPa)	ASTM D790
Flexural Secant Modulus @ 0.5 mm (150°C)	6.40 x 10 <sup>5</sup> (4.4)	psi (GPa)	ASTM D790
Flexural Secant Modulus @ 0.5 mm (175°C)	5.90 x 10 <sup>5</sup> (4.1)	psi (GPa)	ASTM D790

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<b>MECHANICAL (cont..)</b>	<b>Typical</b>	<b>Unit</b>	<b>Test Method</b>
Flexural Secant Modulus @ 2.5 mm (RT)	1.00 x 10 <sup>6</sup> (7.0)	psi (GPa)	ASTM D790
Flexural Secant Modulus @ 2.5 mm (150°C)	5.80 x 10 <sup>5</sup> (4.0)	psi (GPa)	ASTM D790
Flexural Secant Modulus @ 2.5mm (175°C)	4.50 x 10 <sup>5</sup> (3.1)	psi (GPa)	ASTM D790
Tensile Elongation	1.40	%	ASTM D638
Compressive Strength	23,000 (160)	psi (MPa)	ASTM D695

<b>IMPACT</b>	<b>Typical</b>	<b>Unit</b>	<b>Test Method</b>
Izod Notched Impact Strength	13 (700)	ft-lb/in (J/m)	ASTM D256
Unnotched Impact Strength	21 (1,100)	ft-lb/in (J/m)	ASTM D4812

<b>THERMAL</b>	<b>Typical</b>	<b>Unit</b>	<b>Test Method</b>
Thermal Conductivity, 25°C	0.21	W/m-°K	ASTM E1461

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Revision Date: April 5, 2016

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