Premier*LT* ™ L703S

Sheet Molding Compound

PRODUCT DESCRIPTION

Glass fiber reinforced Polyester SMC suitable for body panel, structural and semi-structural applications where, excellent surface appearance, high strength, and durability are required in a low density composite.

GENERAL

Material Status	• Commercial: Active	
Availability	• North America	• South America
Filler/Reinforcement	• Glass Fiber and mineral filler	
Features	• Excellent flexural strength • Very good surface profile • Standard colors are unpigmented or grey. Limited pigmentability	• Weight savings vs. standard composites • Accepts automotive primers and powder in-mold-coatings
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	1.1	g/cm^3	ASTM D792
Mold Shrinkage (RT mold/RT part)	0.00050	in/in	ASTM D955
Moisture Absorption	0.33	%	ASTM D2584
CLTE, X-Y plane	21	ppm/°C	ASTM E831
CLTE, Z plane	42	ppm/°C	ASTM E831
Poisson's Ratio	0.20		ASTM D638

MECHANICAL (As cut)	Typical	Unit	Test Method
Tensile Strength	11,600 (80)	psi (MPa)	ASTM D638
Tensile Modulus	1.17×10^6 (12)	psi (GPa)	ASTM D638
Flexural Modulus (RT)	1.3×10^6 (9)	psi (GPa)	ASTM D790
Flexural Strength	29,000 (200)	psi (MPa)	ASTM D790

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IMPACT	Typical	Unit	Test Method
Izod Notched Impact Strength	19 (980)	ft-lb/in (J/m)	ASTM D256
Unnotched Impact Strength	19 (1000)	ft-lb/in (J/m)	ASTM D4812

For additional information, please contact:

A. Schulman Inc., Engineered Composites
3365 East Center St, Conneaut, Ohio 44030
p: 440-224-2181
f: 440-224-2766
www.aschulman.com

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