

Preliminary Technical Data Sheet

Typical Application — Low Density Structural / Semi-Structural

PremierLT™ L701S is a fiberglass reinforced thermoset sheet molding compound for structural and semi-structural applications where high strength and durability are required in a low density composite.

**Key Features and Benefits:**

- Specific gravity of 1.2 for weight savings vs. standard composites.
- Excellent flexural strength and outstanding toughness.
- Pigmentable with uniform color at low shrinkage.

**Typical Values. Mechanical values are from 12"X12" Compression Molded Cut Specimens .**

Properties	Test Method	Values (US)	Values (Metric)
Flexural Strength	ASTM D-790	23,000 psi	160 MPa
Flexural Modulus (RT)	ASTM D-790	1.00 X 10 <sup>6</sup> psi	7.0 GPa
Flexural Secant Modulus @ 0.5 mm (RT)	ASTM D-790	1.00 X 10 <sup>6</sup> psi	7.0 GPa
Flexural Secant Modulus @ 0.5 mm (150° C)	ASTM D-790	6.40 X 10 <sup>5</sup> psi	4.4 GPa
Flexural Secant Modulus @ 0.5 mm (175° C)	ASTM D-790	5.90 X 10 <sup>5</sup> psi	4.1 GPa
Flexural Secant Modulus @ 2.5 mm (RT)	ASTM D-790	1.00 X 10 <sup>6</sup> psi	7.0 GPa
Flexural Secant Modulus @ 2.5 mm (150° C)	ASTM D-790	5.80 X 10 <sup>5</sup> psi	4.0 GPa
Flexural Secant Modulus @ 2.5 mm (175° C)	ASTM D-790	4.50 X 10 <sup>5</sup> psi	3.1 GPa
Tensile Strength	ASTM D-638	9,000 psi	65 MPa
Tensile Modulus	ASTM D-638	1.20 X 10 <sup>6</sup> psi	8.0 GPa
Tensile Elongation	ASTM D-638	1.40%	1.40%
Notched Impact	ASTM D-256	13 ft*lb/in	700 Joules/m
Unnotched Impact	ASTM D-4812	21 ft*lb/in	1,100 Joules/m
Compressive Strength	ASTM D-695	23,000 psi	160 MPa
Specific Gravity	ASTM D-792	1.20	1.20
Moisture Absorption	ASTM D-2584	0.20%	0.20%
Glass %, Weight Fraction	Premix Washout	41%	41%

This SMC product is generally intended to be compression molded in matched metal die molds, typically at 300°F (150°C) and 500 to 1000 psi (35-65 BAR) molding pressure. Strength values may be affected by the molding process. Polymerization shrinkage is approximately -0.00025 in/in. Contact your Premix sales representative for specific design recommendations.

**Following physical characteristics are typical of this product:**

CLTE, XY direction:	19.0 ppm / deg. C
CLTE, Z direction:	56.0 ppm / deg. C
Thermal Conductivity:	0.21 W / m * deg. K
Poisson's Ratio:	0.33

**The values presented in this data sheet are typical values and are not to be interpreted as product specifications.**

All statements, information and data given herein are believed to be accurate and reliable but are presented without guarantee, expressed or implied.

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