PREMIX
SHAPING THE WORLD OF COMPOSITES

Premier*LT*™ L703S
Sheet Molding Compound

Technical Data Sheet

Typical Application — Low Density / Body Panel / Structural / Semi-Structural

Premier™ L703S is a versatile fiberglass reinforced thermoset sheet molding compound for body panel, structural and semi-structural applications where, excellent surface appearance, high strength, and durability are required in a low density composite.

Key Features and Benefits:

- Excellent surface profile for highly visible painted surfaces.
- Specific gravity of 1.1 for weight savings vs standard composites.
- Excellent mechanical properties and outstanding toughness.
- Standard colors are unpigmented or grey. Limited pigmentability

Typical Values. Mechanical values are for Individually Compression Molded Specimens .			
Properties	Test Method	Values (US)	Values (Metric)
Flexural Strength	ASTM D-790	29,000 psi	200 MPa
Flexural Modulus	ASTM D-790	1.3 X 10^6 psi	9 GPa
Tensile Strength	ASTM D-638	11,600 psi	80 MPa
Tensile Modulus	ASTM D-638	1.7 X 10^6 psi	12 GPa
Notched Impact	ASTM D 256	18 ft*lb/in	980 Joules/m
Unnotched Impact	ASTM D 256	19 ft*lb/in	1000 Joules/m
Specific gravity	ASTM D-792	1.1	1.1
Moisture Absorption	ASTM D2584	0.33 %	0.33 %

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 0.00050 in/in. Glass fiber content nominal - 43% w/w Contact your Premix sales representative for specific design recommendations.

Following physical characteristics are typical of this product:

CLTE, XY direction:	21 ppm / ^{0}C
CLTE, Z direction:	42 ppm / ^{0}C
Thermal Conductivity:	0.18 W / mK
Poisson's Ratio:	0.20