

# Quantum LYTEX™ SF 6700

## Sheet Molding Compound

### PRODUCT DESCRIPTION

Styrene-free E-glass reinforced epoxy molding compound

#### GENERAL

<b>Material Status</b>	• Commercial: Active		
<b>Availability</b>	• North America	• Europe	• Asia Pacific
<b>Filler/Reinforcement</b>	• E-glass Fiber	• Nominal 57% w/w	• Nominal 1" (25 mm) Length
<b>Features</b>	• Styrene-free • High stiffness • Low Density	• Fatigue resistance • Black or Natural Color • Shelf Life 3 months @ 10°F or below	
<b>Processing Method</b>	• <b>LYTEX™ SF 6700</b> can be molded at temperatures in the range of 250-350°F, with 300°F suggested as a starting point. Cure times will be dependent on molding temperature and part thickness and will typically be 2-5 minutes. Detailed molding suggestions are available on request. Cool molded parts at ambient temperature. A cooling fixture may be needed depending on part thickness and geometry. Matched metal die molds.		
<b>Resin</b>	• Epoxy Composite		

PHYSICAL	Typical	Unit	Test Method
Density	1.80	g/cm <sup>3</sup>	ASTM D792
Shrinkage	<0.0015	in/in	cold mold to cold part
CLTE, X-Y plane	16	ppm/°C	ASTM E831
CLTE, Z plane	45	ppm/°C	ASTM E831
Poisson's Ratio	0.33	psi (MPa)	ASTM D638

MECHANICAL (As molded)	Typical	Unit	Test Method
Tensile Modulus	3.8E+6 (26,200)	psi (GPa)	ASTM D638
Tensile Strength	22,000 (152)	psi (MPa)	ASTM D638
Flexural Modulus (RT)	3.3E+6 (22,750)	psi (GPa)	ASTM D790
Flexural Strength	60,000 (414)	psi (MPa)	ASTM D790
Compression Strength	40,000 (276)	psi (MPa)	ASTM D3410

Specimen molded to net shape at 300 F, for 3 minutes under 1000 psi pressure. Compression machined from 6"x6" panel.

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<b>IMPACT</b>	<b>Typical</b>	<b>Unit</b>	<b>Test Method</b>
Izod Notched Impact Strength	28 (1494)	ft-lb/in (J/m)	ASTM D256

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<b>THERMAL</b>	<b>Typical</b>	<b>Unit</b>	<b>Test Method</b>
Glass Transition T <sub>i</sub> , TanDelta	260	°C	ASTM D7028
Glass Transition T <sub>g</sub> , Storage Modulus	230	°C	ASTM D7028

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