

TEMPERATURE & PHYSICAL PROPERTIES

(See Pages 6-7 for Load Data and Deflection for each individual section)

EFFECTS OF TEMPERATURE

Temperature		Approximate Percent of Strength	
°F	(°C)	Polyester	Vinyl Ester
75°	(24)	100%	100%
100°	(37)	90%	100%
125°	(51)	78%	100%
150°	(65)	68%	90%
175°	(78)	60%	85%
200°	(92)	52%	70%

Strength properties are reduced when continuously exposed to elevated temperatures. Working loads shall be reduced based on the above. If unusual temperature conditions exist, consult the factory.

TYPICAL PHYSICAL PROPERTIES

Tensile Strength	40,000 psi	(275 MPa)
Flexural Strength	45,000 psi	(310 MPa)
Flexural Modulus	2.5 x 10 ⁶ psi	(17.2 GPa)
Compressive Strength	25,000 psi	(172 MPa)
Specific Gravity	1.7	(1.7)
Coefficient of Thermal Expansion (Longitudinal)	5 x 10 ⁻⁶ in/in/°F	(2.8 m/m/°C)
Moisture Absorption	<1%, 24 hrs. at 70°F	(<1%, 24 hrs. at 21°C)
UL94 Flammability Classification	V-0	(V-0)
ASTM E84 - Flame Spread Index	<25	(<25)
- Flammability Rating	Class I	(Class I)
Surface Resistivity	<1.0 x 10 ⁴ Ω	(<1.0 x 10 ⁴ Ω)
Volume Resistivity	<1.0 x 10 ⁶ Ωcm	(<1.0 x 10 ⁶ Ωcm)