



## TYPE "E" GLASS

### Properties:

A manufactured fiber in which the fiber-forming substance is glass.

#### Mechanical Properties:

Breaking Strength (psi) 72°F and 50% R.H.	200000-300000
Breaking Tenacity (g/d) Dry	6.0 - 7.3
Wet	3.9 - 4.7
Elongation (%) 72°F	500000
700°F	380000
1000°F	250000
	5.4-5.9

#### Thermal Properties

Linear Expansion Coefficient (in/in x °F) -20°F to 480°F	$3.0 \times 10^{-6}$
Specific Heat [CAL/(g x °C)] 72°F	0.197
Thermal Conductivity (in/hr/ sqft^2 (h x ft^2/°F))	7.2 BTU
Softening Point	1555°F
Strain Point	1400°F

#### Physical Properties:

Length:	Continuous
Fiber Density	2.54 gm/cc
Moisture Regain (%)	0.3

#### Electrical Properties

Dielectric Constant (72°F)	$6.12 \times 10^{10}$ Hertz
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*The above data is based on averages*

### Effect of heat:

Retains 50% of Tensile Strength at 650°F. Will not burn or smolder. Begins to soften at 1350°F. Average thermal shock resistance.

### Effect of Acids and Alkalis:

Resistant to most acids and Alkalis.

### Effect Bleaches and Solvents:

#### Dyes Used:

Standard Color is white. Some colors available in minimum dye lots.

### Resistance to Mildew, aging, Sunlight and Abrasion:

Not attacked by mildew although binder may be affected. Excellent resistance to aging and sunlight

### Suggested Uses:

Braided Sleeving, tapes, cordages, Cable harness over braid. Specialty gasket and seals

### Specifications:

MIL-Y-1140

*This information has been provided by the manufacturer and is accurate to the best of our knowledge.*