

Amphenol

TYPE S-2® GLASS

Properties:

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

Mechanical Properties:

Tensile Strength (psi)	
72°F	665000
700°F	545000
1000°F	350000
Strain to Failure	5.4-5.8

Thermal Properties

Linear Expansion Coefficient (in/in x °F)	
-20°F to 480°F	0.9×10^{-6}
Specific Heat [CAL/(g x °C)]	
72°F	0.197
Softening Point	1555°F
Strain Point	1400°F

Physical Properties:

Yarn:	S-2 Type 636
Length:	Continuous
Specific Gravity:	2.48 gm/cc

Electrical Properties

Dielectric Constant	6.12×10^{10} Hertz
(72°F)	
1MHz	5.0-5.4
10GHz	5.21

The above data is based on averages

Effect of heat:

Retains 80% of Tensile Strength at 650°F. Begins to soften at 1560°F to 1778°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. Poor abrasion resistance.

Suggested Uses:

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

Specifications:

MIL-R-60436 Type IV, Class I

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