

FIBERGLASS / EPOXY / SILICONE / MELAMINE

NEMA G5



Description

The G5 is a woven glass fabric combined with a melamine resin laminate. It is a very hard, flame resistant machining grade with excellent electrical properties in high humidity conditions. This material also has high physical strength and excellent arc resistance. Maximum temperature : 284°F.

Applications

It is used to make switchboard panels, arc barriers, circuit breaker parts and structural/electrical components.

Specifications

Technical Data

Specific gravity	1.85
Tensile strength (psi)	44 000 / 34 000
Flexural strength (psi)	61 100
Compressive strength (psi)	70 000
Hardness, M Scale	115
Bonding strength (lbs)	1900
Shear strength (psi)	18.000
Dissipation factor @ 1 MHz	0.015
Electric strength - volt / 1000	540
Flammability rating	V-O

Temperature	140 °C (284°F)
Coeff. Thermal Exp. In/In/°C x 10 ⁻⁶	15
Water absorption %	0.6

N.B. The information presented may differ from practice. We recommend conducting tests according to the conditions of use. We accept no responsibility for results obtained by the application of this information or the safety and suitability of our products. The data is subject to certain variations without notice.