TECHNICAL DATA BULLETIN
GRADE: G5 NEMA GRADE: G5/G9

DESCRIPTION: Woven glass fabric, melamine resin laminate. G5 is very hard flame resistant, machining grade with excellent electrical properties in high humidity conditions. G5 has high physical strength and excellent arc resistance. QPL listed to MIL-P-24768/1, type GME. Meets MIL-I-24768/1&/8, type GMG & GME.

THICKNESS TESTED: 0.062", 0.125" and 0.500".

TYPICAL PROPERTIES

GENERAL PHYSICAL PROPERTIES	UNITS	VALUE
Specific Gravity	-	1.85
Rockwell Hardness (.062")	M Scale	115
Moisture Absorption (.062")	%	0.60
Flexural Strength (.062") LW	psi	61,600
CW		51,100
Flexural Modulus (.062" LW	kpsi	2,000
CW		1,700
Tensile Strength (.125") LW	psi	44,000
CW		34,000
Izod Impact Strength E-48/50 (.500") LW	ft-lb/in	12.5
CW		8.5
Compressive Strength flatwise (.500")	psi	70,000
Bond Strength (.500")	lb	1,900
Shear Strength (perpendicular) (.062")	psi	18,000

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THERMAL & ELECTRICAL PROPERTIES	UNITS	VALUE
Temperature Index (electrical/mechanical)	°C	[2]/140[1]
Coefficient of Thermal Expansion X-axis (.062") Y-axis	"/"/°C•10^{-6}	15 18
Flammability Rating - U. L. 94	Class	V-0
Breakdown Voltage Condition - A (.062") D-48/50	kV	65 55
Electric Strength Condition - A (.062") D-48/50	V/mil	450 400
Permittivity (.062") Condition - D-24/23	-	7.03
Dissipation Factor (.062") Condition - D-24/23	-	.015
Arc Resistance (.125") D-495	sec	185
Comparative Tracking Index (.125") D3638	-	600+

[1] NEMA Publication Number LI 6 - This temperature is a recommendation only, and based upon experience in various applications. The maximum operating temperature is dependent upon the application and should be investigated prior to use.

[2] NEMA Publication Number LI 6 -Not recommended for electrical applications at elevated temperatures.

The above data, while believed to be accurate and based on reliable analytical methods, is for informational purposes only. The terms and conditions of the agreement under which it is sold will govern any sales of this product. Data supplied above are "typical values"; not to be considered "specification values".