



Grade C Canvas Phenolic Sheet MIL-I-24768/16 Type FBM

TECHNICAL DATA BULLETIN

GRADE: NP310 NEMA GRADE: C - U. L. LISTED: Y

DESCRIPTION: NP310 is a canvas machining grade for structural and mechanical applications. It has better impact strength than phenolic paper grades. NP310 meets or exceeds the requirements of MIL-I-24768/16. **THICKNESS TESTED:** 0.062", 0.125", and 0.500"

TYPICAL PROPERTIES

GENERAL PHYSICAL PROPERTIES	UNITS	VALUE
Specific Gravity	-	1.37
Rockwell Hardness (.062")	M Scale	100
Moisture Absorption (.062")	%	3.5
Flexural Strength (.062") LW	psi	18,000
CW		17,000
Flexural Modulus (.062" LW	kpsi	1,600
CW		1,500
Tensile Strength (.125") LW	psi	12,000
CW		9,700
Izod Impact Strength E-48/50 (.500") LW	ft-lb/in	1.95
CW		1.75
Compressive Strength flatwise (.500")	psi	34,000
Bond Strength (.500") LW	lb	2,500
CW		2,300
Shear Strength (perpendicular) (.062")	psi	14,000

THERMAL & ELECTRICAL PROPERTIES	UNITS	VALUE
Maximum Operating Temperature	°C	125 (1)
Coefficient of Thermal Expansion X-axis	" / °C x 10 ⁻⁶	20.0
(.062") Y-axis		22.0
Flammability Rating - U. L. 94	Class	HB
Breakdown Voltage Condition - A	kV	20
(.062") D-48/50		5
Electric Strength Condition A	V/mil	400
(0.062") D-48/50		150
Arc Resistance (.125") D-495	sec	15
Comparative Tracking Index (.125") D3638		155

¹ NEMA 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.

This 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".

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