



Ryertex Grade C

TECHNICAL DATA BULLETIN

NEMA GRADE: C

U. L. LISTED: Yes

DESCRIPTION: Ryertex C is a medium weave cotton fabric combined with a phenolic resin system. It is a canvas machining grade for structural and mechanical applications. It has better impact strength than phenolic paper grades. Ryertex C meets or exceeds the requirements of MIL-I-24768/16.

THICKNESS TESTED: 0.062"; 0.125", 0.500"

TYPICAL PROPERTIES

GENERAL PHYSICAL PROPERTIES	UNITS	VALUE
Specific Gravity	-	1.37
Moisture Absorption (0.062)	%	3.5
Rockwell Hardness (0.062)	M Scale	100
Flexural Strength (0.062)	Psi	LW - 18,000 CW - 17,000
Flexural Modulus (0.062)	Kpsi	LW - 1,600 CW - 1,500
Tensile Strength (0.125)	psi	LW - 12,000 CW - 9,700
Bond Strength (0.500)	Lb	LW - 2,500 CW - 2,300
Shear Strength (perpendicular - 0.062)	Psi	14,000
Izod Impact Strength E-48/50 (0.500)	Ft-lb/in	LW - 1.95 CW - 1.75
Compressive Strength (flatwise - 0.500)	psi	34,000

THERMAL & ELECTRICAL PROPERTIES	UNITS	VALUE¹
Maximum Operating Temperature	C	125 ¹
Coefficient of Thermal Expansion	" μ "/°C $\times 10^{-6}$	X-Axis – 20.0 Y-Axis – 22.0
Breakdown Voltage (0.062)	kV	A – 20 D (48/50) - 5
Electric Strength (0.062)	V/mil	A – 400 D (48/50) - 150
Arc Resistance (0.125) D-495	Sec	15
Comparative Tracking Index (0.125) D3638		155
Flammability Rating - U. L. 94	Class	HB

All testing per ASTM D-348 unless otherwise noted.

This data, while believed to be accurate and based on reliable analytical methods, is for informational purposes only. Data supplied above are "typical values"; not to be considered "specification values".

It is the responsibility of the users of this information to make sure that they have the latest version of this TDB, and are urged to check with Customer Service to determine if information is most current.

¹ This temperature is a recommendation only. The maximum operating temperature is dependent upon the application and should be tested accordingly.