



Ryertex Grade LE

TECHNICAL DATA BULLETIN

NEMA GRADE: LE

U. L. LISTED: No

DESCRIPTION: Ryertex LE is a fine weave linen (<4oz/sq-yd) combined with a phenolic resin that provides a material with better machining properties than a Grade C or even a Grade L material. Ryertex LE allows for tighter tolerances and a smoother machined surface. It has improved moisture resistance, and is suitable for electrical applications in moderate humidity.

THICKNESS TESTED: 0.062"; 0.125", 0.500"

TYPICAL PROPERTIES

GENERAL PHYSICAL PROPERTIES	UNITS	VALUE
Specific Gravity	-	1.34
Moisture Absorption (0.062)	%	1.90
Rockwell Hardness (0.062)	M Scale	100
Flexural Strength (0.062)	Psi	LW – 22,000 CW – 16,000
Flexural Modulus (0.062)	Kpsi	LW – 1,600 CW – 1,200
Tensile Strength (0.125)	psi	LW – 13,000 CW – 9,000
Bond Strength (0.500)	Lb	1,900
Shear Strength (perpendicular – 0.062)	Psi	13,500
Izod Impact Strength E-48/50 (0.500)	Ft-lb/in Notched	LW – 1.35 CW – 1.10
Compressive Strength (flatwise – 0.500)	psi	36,000

THERMAL & ELECTRICAL PROPERTIES	UNITS	VALUE¹
Maximum Operating Temperature	C	125 ¹
Coefficient of Thermal Expansion (0.062)	" / °C x 10 ⁻⁶	X-Axis – 18.0 Y-Axis – 19.0
Breakdown Voltage (0.062)	kV	A – 50 D (48/50) - 5
Electric Strength (0.062)	V/mil	A – 625 D (48/50) - 500
Arc Resistance (0.125) D-495	Sec	15
Comparative Tracking Index (0.125) D3638		170
Permittivity (0.062") Condition D-24/23		5.8
Dissipation Factor (0.062") Condition D-24/23		0.065
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.