

Grade CE Canvas Phenolic

Grade CE Canvas Phenolic is manufactured with a domestic cotton fabric and phenolic resin. It is similar to grade C with improved moisture resistance and electrical properties. Its mechanical properties are equivalent to grade C. It is designated by MIL-I-24768/14 Type FBG and the NEMA grade is CE.

Property	Units	CE Canvas Phenolic
Physical		
Specific Gravity	-	1.37
Moisture Absorption (.062")	%	2.0, 1.5, 0.7
Mechanical		
Rockwell Hardness (.062")	M Scale	100
Flexural Strength (.062") LW	psi	17,500
CW	psi	15,000
Flexural Modulus (.062") LW	psi	1,600,000
CW	psi	1,500,000
Tensile Strength (.125") LW	psi	11,000
CW	psi	9,000
Izod Impact Strength E-48/50 (.500") LW	ft-lb/in	1.70
CW	ft-lb/in	1.50
Compressive Strength flatwise (.500")	psi	34,000
Bond Strength (.500") LW	lbs	1,700
CW	lbs	1,700
Shear Strength (perpendicular) (.062")	psi	14,000
Thermal		
Maximum Operating Temperature	°F	257
Coefficient of Thermal Expansion (.062") X-axis	in/in/°F	11×10^{-6}
Y-axis	in/in/°F	12×10^{-6}
Flammability Rating - U. L. 94		HB
Electrical		
Breakdown Voltage Condition - A (.062") D-48/50	V	40,000 3,000
Electric Strength Condition - A (.062") D-48/50	V/mil	550 300
Arc Resistance (.125") D-495	sec	15

LW – Length Wise of the sheet, direction of manufacturing

CW – Cross Wise, perpendicular to Length Wise

NOTE: The information contained herein are typical values intended for reference and comparison purposes only. They should NOT be used as a basis for design specifications or quality control. Contact us for manufacturers' complete material property datasheets. All values at 73°F (23°C) unless otherwise noted.