

Grade C Canvas Phenolic

Grade C Canvas Phenolic is a machining grade phenolic for structural and mechanical applications. Better impact strength than phenolic paper grades. It is designated by MIL-I-24768/16 Type FBM and the NEMA grade is C.

Property	Units	C Canvas Phenolic
Physical		
Specific Gravity	-	1.37
Moisture Absorption (.062")	%	3.5, 2.4, 1.1
Mechanical		
Rockwell Hardness (.062")	M Scale	100
Flexural Strength (.062") LW	psi	18,000
CW	psi	17,000
Flexural Modulus (.062") LW	psi	1,600,000
CW	psi	1,500,000
Tensile Strength (.125") LW	psi	12,000
CW	psi	9,700
Izod Impact Strength E-48/50 (.500") LW	ft-lb/in	1.95
CW	ft-lb/in	1.75
Compressive Strength flatwise (.500")	psi	34,000
Bond Strength (.500") LW	lbs	2,500
CW	lbs	2,300
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	20,000 N/R
Electric Strength Condition - A (.062") D-48/50	V/mil	400 150
Arc Resistance (.125") D-495	sec	15
Comparative Tracking Index (.125") D3638	-	155

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.