

DATA SHEET

CANVAS BASE PHENOLIC NEMA GRADE C & CE

BASE MATERIAL	Cotton Fabric
RESIN	Phenolic
MILITARY SPECIFICATION	MIL-P-15035
MIL-SPEC TYPE	FBG
TENSIL STRENGTH	
Lengthwise	12,000
Crosswise	9,000
COMPREHENSIVE STRENGTH (psi)	
Flatwise	39,000
Edgewise	24,500
FLEXURAL STRENGTH, MIN FOR 1/8 -ILN SPECIMEN (psi)	
Lengthwise	17,000
Crosswise	14,000
MODULUS OF ELASTICITY, FLEXURAL	
Lengthwise	900 m
Crosswise	800 m
SHEAR STRENGTH (psi)	11,000
IZOD IMPACT, MIN (ft-lb per in.of notch)	
Flatwise	1.6
Edgewise	1.4
HARDNESS, ROCKWELL (M - scale)	105
SPECIFIC GRAVITY	1.33
COEFFICIENT OF THERMAL EXPANSION (per deg C)	2×10^{-5}
WATER ABSORPTION, MAX IN 25HR (%)	
1/16 in.	2.2
1/2 in.	.75
DIELECTRIC STRENGTH, PERPENDICULAR TO lamination, shor-time test (v-mil)	
1/16 in.	500
1/8 in.	360
DISSIPATION FACTOR, MAX 1 MC, ASTM D-150, Condition A	.055
DIELECTRIC CONSTANT, MAX 1 MC, ASTM D-150, Condition A	5.5
INSULATION RESISTANCE, 96 HR, 90 PERCENT RH, 95 (megohms)	
BONDING STRENGTH, MIN (lb)	1800
THERMAL CONDUCTIVITY (cal-cm/sec-sq cm-deg C)	7×10^{-4}
MAX. OPERATING TEMP. °F.	265
Machine Design, June 16, 1966	



550 Mallory Way • Carson City, NV 89701
 (775) 283-4400 • (800) 475-2214
www.polymerplastics.com