

DATA SHEET

GLASS MELAMINE NEMA GRADE G-5

BASE MATERIAL	Glass Fibric
RESIN	Melamine
MILITARY SPECIFICATION	MIL-P-15037
MIL-SPEC TYPE	GME
TENSIL STRENGTH	
Lengthwise	50,000
Crosswise	40,000
COMPREHENSIVE STRENGTH (psi)	
Flatwise	75,000
Edgewise	35,000
FLEXURAL STRENGTH, MIN FOR 1/8 -ILN SPECIMEN (psi)	
Lengthwise	55,000
Crosswise	35,000
MODULUS OF ELASTICITY, FLEXURAL	
Lengthwise	1,700 m
Crosswise	1,500 m
SHEAR STRENGTH (psi)	25,000
IZOD IMPACT, MIN (ft-lb per in.of notch)	
Flatwise	13
Edgewise	8
HARDNESS, ROCKWELL (M - scale)	120
SPECIFIC GRAVITY	1.9
COEFFICIENT OF THERMAL EXPANSION (per deg C)	1 X 10 ⁻⁵
WATER ABSORPTION, MAX IN 25HR (%)	
1/16 in.	.8
1/2 in.	.4
DIELECTRIC STRENGTH, PERPENDICULAR TO lamination, shor-time test (v-mil)	
1/16 in.	400
1/8 in.	350
DISSIPATION FACTOR, MAX 1 MC, ASTM D-150, Condition A	.02
DIELECTRIC CONSTANT, MAX 1 MC, ASTM D-150, Condition A	7.5
INSULATION RESISTANCE, 96 HR, 90 PERCENT RH, 95 (megohms)	100
BONDING STRENGTH, MIN (lb)	1,700
THERMAL CONDUCTIVITY (cal-cm/sec-sq cm-deg C)	7 X 10 ⁻⁴
MAX. OPERATING TEMP. °F.	285
Machine Design, June 16, 1966	



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