



NEMA GRADE G11

Property Profile NEMA GRADE	Dimension	G11
Military Specifications		P-18177
Military Type		GEB
Base Material Glass Cloth		
Colour Green		
Resin		Epoxy
Physical Properties		
Density	#/cu.in.	.070
Water Absorption (1/8"thk)	%	
Hardness	R"M"	115
Tensile Strength – with grain	PSI	45,000
Compressive Strength - Flatwise	PSI	80,500
Flexural – Flatwise with grain	PSI	75,000 plus
Bonding Strength (1/2" thick)	#	2,000
Electrical Properties		
Impact – IZOD edgewise with grain	Ft.lb./in.	10
Shear – Flatwise (1/8" thick)	PSI	25,000
Dielectric Strength – perpendicular (Tested in transformer oil, 23° C)	VPM Short time	-
Dissipation Factor	10 ⁶ cycles/sec	.017
Dielectric Constant	10 ⁶ cycles/sec	5.2
Volume Resistivity	Megaohms-cm	5x10 ⁶
Surface Resistivity	Megaohms	1x10 ⁷
Arc Resistance	Seconds	-
Operating Temperature	Degrees C.	180
Operating Temperature	Degrees F.	356

: Test Samples 1/8" thick laminate

: Test Methods Impact Strength D732 – condition E – 48/50
 Arc Resistance D495 – condition A
 All others D229

These are average properties with periodic monitoring by NEMA. However, the final determination as to the suitability of this product for any use contemplated is the sole responsibility of the user. There is no warranty, expressed or implied, including without limitation warranty of merchantability or fitness for a particular purpose. Under no circumstances shall GRT Genesis be liable for incidental or consequential damage.

Values are based on typical Test Methods and Conditions and published for Reference purposes only