



NEMA GPO3 SHEET

1000 minutes Track Resistance
 Low Smoke + Toxicity

Highly Flame Resistant
 UL 94V0 Self Extinguishing 0.094 and thicker

Mechanical Properties

Tensile Strength		PSI	ASTM D638	8,000
Flexural Strength		PSI	ASTM D790	22000 +
Compressive Strength		PSI	ASTM D695	33000 +
Shear Strength		PSI	ASTM D732	11500 +
Water Absorption		% weight	ASTM D570	0.4
Specific Gravity		---	ASTM D792	1.81

Electrical Properties

Dielectric Strength	perpendicular in air	VPM	ASTM D149	450 +
Dielectric Strength	perpendicular in oil	VPM	ASTM D149	575 +
Dielectric Strength	parallel in oil	kV	ASTM D149	47
Arc Resistance		seconds	ASTM D495	180
Dissipation Factor	60 Hz	---	ASTM D150	0.010

Thermal Properties

UL Temperature Index	Electrical	degrees C	UL746B	130
UL Temperature Index	Mechanical	degrees C	UL746B	160
Coefficient of Thermal Expansion		in / in / C degree	ASTM D696	0.00002
UL Recognition File # E81928				

GPO3 is a fiberglass reinforced Thermoset Polyester laminate recognized industry-wide for an optimum of Flame- and Arc-Resistance in demanding Electrical applications.

The combination of high strength and Flame Resistance with Low-Smoke Generation characteristics are particularly critical in Marine and Transit applications where safe, economical Hi-Performance materials are required.

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