

GPO-3 is a fiberglass reinforced Thermoset Polyester laminate recognized industry-wide for an optimum of Flame- and Arc-Resistance in demanding Electrical applications.

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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.

GPO-3 Technical Data Sheet 2100 x 12				
IEC 893 / EN 60893 Grade ANSI (NEMA) Grade NEMA LI-1 Items				UP GM 203
				GPO-3
	Color	Visual inspection		Red/White
Physical Properties	Specific Gravity	IEC 60893-2:2003 8.1	g/cm3	≥1.80
	Water absorption	ISO62:2008 8.2	%	≤0.5
	Flexural Strength⊥	IEC 60893-2:2003 5.1	Мра	≥160
	Compressive strength	IEC 60893-2:2003 5.3	Мра	≥300
Mechanical properties	Impact strength	IEC 60893-2:2003 5.5.3	KJ/m ²	≥60
	Tensile Strength	IEC 60893-2:2003 5.7	Мра	≥100
	Electric Strength [⊥]	IEC 60893-2:2003 6.1.2	kV/mm	≥ 12
	Breakdown Voltage //	IEC 60893-2:2003 6.1.3	kV/25mm	≥ 80
	Dielectric Constant	IEC 60893-2:2003 6.2		4.0-5.0
	Dissipation Factor	IEC 60893-2:2003 6.2		≤0.03
	Proof Tracking Index	IEC 60893-2:2003 6.4		≥600
	Volume Resistivity	IEC 60093 : 1980	Ω·m	≥ 1.0 x 10 ¹⁰
	Surface Resistivity	IEC 60093 : 1980	Ω	≥ 1.0 x 10 ¹⁰
	Insulation resistance after immersion in water	IEC 60893-2 6.3	Ω	≥ 1.0 × 10 [™]
	Arc Resistance	IEC 61621 : 1997	sec	≥180
Thermal properties	Coefficient of Thermal Expansion	ASTME 228-11	1/K	≤2x10∘
	Temperature Index	IEC 60085:2004 7.1	°C	155
	Oxygen Index	ISO 4589-2:1996	%O2	≥ 30
Flame Resistance performance	Flame Resistance	IEC 60893-2:2003 7.2 UL 94		V-0



All information contained in this data sheet is believed to be reliable and is subject to change due to developments in design, technical specifications, or standards. We advise, however, that customers should separately evaluate the suitability of our products for their application

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