



Polyester glass mat laminates GPO3

GENERAL INFORMATION:

Polyester glass laminates are manufactured from layers of glass mat bonded with thermosetting temperature stable polyester resins. The resultant laminates make excellent insulating materials with high heat and arc resistant properties together with good mechanical and machining properties. Their resistance to carbon tracking is fifty times greater than that of phenolic laminates.

APPLICATION

Polyester glass is widely used in motors and generators for blocking and wedging applications as well as switchgear, dry and oil filled transformers, refrigeration units, electric ovens and induction furnaces and as tram-rail hangers,

TYPICAL PROPERTIES:

Properties		Unit	Values
			GP0-3
Tensile strength \geq		Mpa	166
Flexural strength \geq		Mpa	166
Compressive strength \geq		Mpa	157
Shear strength		MPa	68
Impact strength \geq	Flatwise	KJ/ cm ²	90
	edgewise		45
Votage endurance perpendicular to lamination in transformer oil 25C \geq		KV/mm	17
Insulation resistance \geq	Normal condition	Ω	1×10^{14}
	After boiling in water		1×10^{11}
Water absorption (D-24/23, 1.6 mm in thickness) \leq		%	0.27
Density		g/cm ³	1.81
Flammability, UL subject 94			94V0
Dielectric strength D149 \geq		KV/mm	17
Dielectric breakdown D149 \geq		KV/mm	85
Arc resistance D495 \geq		Sec	170
Comparative track Index(C.T.I)			1(< 599Volt)
Permittivity,1KV,D150			4.01
UL temperature index			155C°
Sheet Size		1220×1020,1980x980	
Tolerances		As IEC or NEMA standards	

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