



THE GUND COMPANY

Manufacturers & fabricators of engineered material solutions

Item:	Gundply 1003
Description:	Gundply 1003 high performance Glass Epoxy Electrical Insulation is a B stage, single layer woven fabric that is impregnated with a high temperature epoxy resin, suitable for Class 180 systems. The fabric construction provides excellent mechanical properties, and offers good protection against cut through. Gundply 1003 provides an economical alternative for many demanding insulating needs. The B stage material fabric is easily formed and is very pliable. This material conforms to your exact application and can be rapidly cured to reduce turn-around time.
Fabric:	This Class H material is supplied in custom widths, up to 38" maximum full width.

Requirement	ASTM Test	Test Condition	Unit	Gundply 1003
Thickness, nominal	--	--	in	0.018
Thermal Class	--	--	C	180
Resin Content	--	--	%	32

Typ Cured Laminate Performance*	ASTM Test	Test Condition	Unit	Gundply 1003
Perpendicular Dielectric, typ Strength in Oil	D149	A	V/mil	322
Tensile Strength - Lengthwise:	D638	A	psi	31,345
Tensile Strength - Crosswise:	D638	A	psi	27,627
Tensile Modulus - Lengthwise:	D638	A	ksi	840
Tensile Modulus - Crosswise	D638	A	ksi	841
Punch-Type Shear Strength	D732	A	psi	11,142
Punch-Type Shear Modulus	D732	A	ksi	3,141
Flexural Strength - Lengthwise:	D790	A	psi	57,490
Flexural Strength - Crosswise:	D790	A	psi	40,631
Flexural Modulus - Lengthwise:	D790	A	ksi	2,718
Flexural Modulus - Crosswise:	D790	A	ksi	2,162
Glass Transition Temperature by DMA Method	E1640	A	°C	201

CURE CYCLE: 3 hours at 150°C after unit has reached temperature.

* Vacuum bag molded

SHELF LIFE: Under refrigerated temperatures (4°C), this product has a usable shelf life of 12 months from the date of manufacture. Shelf life is reduced to 4 months when stored at room temperature.