



THE GUND COMPANY

Manufacturers & fabricators of engineered material solutions

Item: **RotoGuard®** Slot Insulation

Description: RotoGuard® Slot Insulation from The Gund Company is a high performance glass epoxy laminate. It can be produced in five standard constructions as well as custom constructions. The aerospace manufacturing technology used to produce this insulation provides uniform, high quality thickness and straightness down the entire length of each part. Every part is 100% inspected for quality and can be hipot tested up to 20kV.

Dimensions:	Standard Inside Radius	.100" +/- .010"	2.54 +/- .25 mm
	Radius Range Available	.027" - .125"	.7 - 3.2 mm
	Angle	90 +/- 3° Standard	
	Max Leg Dimensions	7" x 1.8" +/- .008	177.8 x 45.7 +/- .2 mm
	Available Thickness	.030" - .125" +/- .003"	.78 mm - 50.8 mm +/- .076 mm
	Shapes	Standard "U" and "L" shapes are available. Custom shapes available upon request.	

Construction:	Type 0	All Epoxy Glass
	Type I	Glass - Nomex® - Glass
	Type II	Nomex® - Glass - Nomex®
	Type III	Glass - Nomex® - Glass - Polyimide - Glass - Nomex® - Glass
	Type IV	Nomex® - Glass - Polyimide - Glass - Nomex®
	Type N	Nomex®
	Special Requests	Custom construction available to meet most customer requests

Key Characteristics ¹	Units	Test Method	Condition	Type 0	Type I	Type II	Type III	Type IV	Type N
Apparent Density	g/cm ³	ASTM D-792	A	2.0	1.7	1.7	1.6	1.7	1.08
Water Absorption	%	ASTM D-570	D-24 / 23	0.4	1.3	4.0	1.5	3.7	--
Tensile	ksi	ASTM D-638	A	32.9	26.6	18.3	26.0	17.5	15.6
Flexural Strength	ksi	ASTM D-790	A	87.71	54.72	50.60	65.20	60.10	--
			E-1/160 T160	46.60	50.60	32.70	52.50	41.40	--
Dielectric Strength	V/mil	ASTM D-149	A	1,050	1,050	1,400	1,200	1,200	680
Permittivity	--	ASTM D-150	A	4.6	4.2	3.8	4.2	3.8	3.7
Dissipation Factor	--	ASTM D-150	A	0.03	0.02	0.02	0.022	0.02	0.007
Compressive Strength (1/2")	ksi	ASTM D-695	A	--	--	40	48	--	--
Thermal Conductivity	W/(m.K)	ASTM E-1461	--	0.25 - 0.21	0.23 - 0.19	0.25 - 0.21	0.25 - 0.21	0.24 - 0.20	0.20 - 0.14
Comparative Tracking Index	--	IEC-60112	--	200	200	250	200	250	250

¹ Indicates a thickness of 0.050"