



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 configurations or a variety of custom configurations. 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
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®	
	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 ²	Type IV ²
Apparent Density	g/cm ³	ASTM D-792	A	2.0	1.7	1.7	1.6	1.7
Water Absorption	%	ASTM D-570	D-24 / 23	0.4	1.3	4.0	1.5	3.7
Tensile	ksi	ASTM D-638	A	227.0	183.9	126.6	179.4	120.8
Flexural Strength	MPa	ASTM D-790	A	87.71	54.72	50.58	65.20	60.10
			E-1/160 T160	46.60	50.58	32.68	52.50	41.36
Dielectric Strength	V/mil	ASTM D-149	A	1,050	1,050	1,400	1,200	1,200
Permittivity	--	ASTM D-150	A	4.6	4.2	3.8	4.2	3.8
Dissipation Factor	--	ASTM D-150	A	0.03	0.02	0.02	0.022	0.02
Power Factor	--	ASTM D-150	A	0.01	0.02	0.02	0.02	0.02
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
Comparative Tracking Index	--	IEC-60112	--	200	200	250	200	250

¹ Indicates a thickness of 0.050" ² Indicates 0.0001" Polyimide