



# THE GUND COMPANY

MANUFACTURERS & FABRICATORS OF ENGINEERED MATERIAL SOLUTIONS

## GENERATOR MATERIAL COMPARATIVE DATA SHEET

Product Grades	TGC	C109	C209	Formed G-11	G-10	G-11H	LSBC	N155	PTFE G-11	Rotoguard TIB	Rotoguard Glass Epoxy TI	Side Ripple	Top Ripple	U205	VARTIM VIL 130/155	Rotoguard Slot Armor	
	NEMA			G-11	G-10	G-11		GPO-1	G-11						GPO-1	--	
	IEC		EPGC 202	EPGC 203	EPGC 201	EPGC 201	EPGC 203		UPGM 201						UPGM 201/EPGM 203	--	
Construction		Semi-Conductive Glass Laminate	Semi-Conductive Glass Epoxy	Glass Epoxy	Glass Epoxy	Glass Epoxy	High Strength Low Shrink Black Canvas Phenolic	High-Temp Glass Polyester	High-Pressure Glass Laminate	--	Single Layer Woven Glass Fabric	Semi-Conductive Glass Fiber	Glass Fiber	Glass Polyester	Custom Molded Composite Material		
Standard Thickness Available		in.	0.020"-0.500"	0.008"-0.500"	0.031, 0.047, 0.062, 0.084, 0.098, 0.125	0.006"-5.000"	30 x 48, 48 x 60, 48 x 96, 48 x 120	0.125"-2.500"	0.031"-2.000", 0.118"-1.500"	0.010"-4.000"	0.005", 0.007", 0.010", 0.013"	5 Mil, 7 Mil, 10 Mil, 13 Mil	0.012", 0.02", 0.026", 0.032", 0.037", 0.039"	0.030", 0.350"	0.118"-2.362"	0.062"-2.000"	
		cm.	0.051 cm-1.270 cm	0.020 cm-1.270 cm	0.079, 0.119, 0.157, 0.213, 0.249, 0.318	0.015 cm-12.700 cm	76.2 x 121.92, 121.92 x 152.4, 121.92 x 243.84, 121.92 x 304.8	0.318 cm-6.350 cm	0.079 cm-5.080 cm, 0.300 cm-3.810 cm	0.025 cm-10.160 cm	0.013 cm-0.018 cm, 0.025 cm-0.033 cm	.13 mm, .18 mm, .25 mm, .33 mm	0.03, 0.051, 0.066, 0.081, 0.094, 0.099	0.076 cm, 0.889 cm	0.300 cm-5.999 cm	0.318 cm-6.350 cm	
Rockwell Hardness	M Scale	--	--	--	98	--	105	--	--	--	--	--	--	--	--	--	
Tensile Strength, Lengthwise and Crosswise	LW	17	35	40	--	41	10	12	34	--	(5 Mil) 800	--	--	21.76	>30	>35	
	CW	ksi	--	--	--	--	12	--	--	--	(5 Mil) 500	--	--	--	--	--	
Compressive Strength	ksi	42	58	50	--	70	37	40	73	--	--	--	--	59.47	>45	>50	
Flexural Strength, Lengthwise and Crosswise	LW	30	57	54	80	80	20	26	58	--	--	--	--	37.7	>41	>45	
	CW	ksi	33	80	44	70	70	12	22	3.1	--	--	--	--	--	--	
Shear Strength	ksi	17	21	--	25	--	--	--	--	--	--	--	--	--	--	--	
IZOD Impact Strength, LW	ft-lbs./in. <sup>2</sup>	14	13	10	15	11	2	10	--	--	--	--	--	54.72	--	--	
Bonding Strength	lbs.	850	920	1950	2300	2200	2000	--	--	--	--	--	--	--	--	--	
Electrical Properties		Units															
Arc Resistance	Seconds	--	--	185	130	--	--	150	--	--	--	--	--	--	--	>130	>130
Dielectric Strength	V/mil	--	--	65	485	485	--	450	180	--	(5 Mil) 270	--	--	13000	450	450	
Breakdown Voltage	kV	--	--	--	50	--	--	30	--	--	--	--	--	38	>45	>45	
Surface Resistivity	Ohms/Sq.	--	--	--	200	--	--	--	--	--	--	--	>10000	--	--	--	
Physical Properties		Units															
Water Absorption	%	--	--	0.09	--	--	2	0.25	0.5	--	--	--	--	--	0.025	0.025	
Specific Gravity	lbs/in <sup>3</sup>	0.54	0.30	0.69	0.67	0.69	--	0.66	0.69	--	--	0.65	0.65	0.69	0.63	0.64	
Thermal Properties		Units															
Relative Temperature Index	°F	356	356	356	--	--	266	311	356	--	311	311	311	--	266	311	
Flame Resistance	Class	--	--	--	UL 94 HB	UL 94 HB	UL 94 V-0	UL 94 V-0	--	--	--	UL 94 V-0	UL 94 V-0	UL 94 V-0	UL 94 HB		
Thermal Class	Class	--	--	--	--	--	B	F	--	--	--	F	F	--	--		

Contact our Generator team for additional information on our Rotoguard family of products at [Generators@thegundcompany.com](mailto:Generators@thegundcompany.com)

Data supplied above are typical values and are not to be considered specification values. All of the information, suggestions and recommendations pertaining to the properties and uses of the products herein are based upon tests and data believed to be accurate; however, the final determination regarding suitability of any material described herein for the contemplated application, the manner of such use, and whether the use infringes any patents is the sole responsibility of the user. There is no warranty, expressed or implied, including, without limitation warranty of merchantability or fitness for a particular purpose. Under no circumstances shall we be liable for incidental or consequential loss or damage.