

THE GUND COMPANY

Manufacturers & fabricators of engineered material solutions

ENGINEERING RESOURCE

MOTOR INSULATION - MATERIAL COMPARATIVE DATA SHEET

(No. 1877 - 1877 - 1877 - 1877 - 1877 - 1877 - 1877 - 1877 - 1877 - 1877 - 1877 - 1877 - 1877 - 1877 - 1877 -		7		X / / / X	- X / /	1	X / /	X		7.7		-	Λ	1	- 1	1.70 / 1.7	/
Product Grades	The Gund. Co	APO-1	C109	C209	G-3	G-9	G-10	G-11H	Magnohl™	Nomex®	N155	N220	PET film	VART	MVIL	Flexible Laminates	Rotoguar Slot Armo
	NEMA	GPO-1				G-5/G-9	G-10	G-11	- 1		GPO-1	GPO-1	: 44	GPO-1			
	IEC	UPGM 202		EPGC 202		MDGC 201	EPGC 201	EPGC 203			UPGM 201	UPGM 201	277.5		Л 201/ И 203	4 57 6	3 -1 3
Construction		Glass Polyester	Semi- Conductive Glass Laminate	Semi- Conductive Glass Epoxy	Glass Fabric Laminate	Glass Melamine	Glass Epoxy	Glass Epoxy	Magnetic Glass Reinforced Laminate	Aramid Paper	High- Temp Glass Polyester	High- Temp Glass Polyester	Polyester Film	Mo Com	tom Ided posite erial	specs.	ard
Standard Thickness Avail	lable	0.031"- 2.000"	0.020"- 0.500"	0.008"- 0.500"	0.008"- 4.000"	0.008"- 4.000"	.006"- 5.000"		0.062"- 0.400"	.0006"; .0012"	0.031"- 2.000", 0.118"- 1.500"	0.031"- 2.000", 0.118"- 1.500"		0.0 2.0	62"- 00"	and their sp	า our Rotoguard ลทy.com
Mechanical Properties	Units													UPGM 201	EPGM 203		n on npar
Rockwell Hardness	M Scale	<u> </u>		NEE4	110	115	98	2000	1000	577	: (35)	· · · · · · · · · · · · · · · · · · ·	2772		55	materials	team for additional information acts at Generators@thegundcom
Tensile Strength LW	ksi	9.5	16.5	35	42	44		41	1575		12	11	8.7	>30	>35	nat	ma
Lengthwise & Crosswise CW	KSI		()	17 40 1	34	34		(-)	lee.	-5-5	: e.e.)			: -			for
Compressive Strength	ksi	33	42	58	76	70		70	46		40	32	144	>45	>50	laminate	(g) = i.
Flexural Strength, LW		20	30	57	18	61.6	80	80	28	- ent	26	32	87.7v;	>41	>45	Ë	one ors(
Lengthwise & Crosswise CW			33	80	14	51,500	70	70	100		22		122				diti
Shear Strength	ksi	13	17	21	21.5		25	7227	18.5	22	155c	12		22	227	ible	ad
IZOD Impact Strength, LW	ftlbs./in. ²	8.5	14	13	12.0	12.5	15	11		22	9.5	11.0	-22	122	22	flexible	for
Bonding Strength	lbs.	1,200	850	920	1,500	422	2,300	2,200	1,080	23	[6 <u>4</u> 2]	1,080	8228		20	of 4	am s at
Electrical Properties	Units																te
Arc Resistance	Seconds	180	1221	8227	100	185	130	1226	102		150	180	1221	>130	>130	full list	enerator to
Dielectric Strength	V/mil	450	1225	1941	14.8	450	485	485	100	3,650	450	550	2.0	450	450	₽	fpi
Breakdown Voltage	kV	> 40	- CLD	9220	55	65	50	(22)	9443	22	30	50	Same .	>45	>45	Ф	Gen ily o
Surface Resistivity	Ohms/Sq.	42		:=:		600+	200		(442)	1014	See		1221		==	for	our (famil
Physical Properties	Units															sn	ct o
Water Absorption	%	22		9221	22	0.60		(22)	744		0.25	0.25	.5	0.025	0.025	ಕ	ıtac
Specific Gravity	lbs./in. ³	0.066	0.054	0.03	0.068		0.067	0.069	0.108	-	0.066	0.061	0.0506	0.063	0.064	Contact	Contac
Thermal Properties	Units															<u> </u>	0.50
Relative Temperature Index	°C		180	180	130/170	130		2000	155	220	155	210		130	155		
Flame Resistance	Class	UL 94 HB		: 4-4	UL 94 HB	UL 94 V-0	UL 94 HB	UL 94 HB	UL 94 V-0	UL 94 V-0	UL 94 V-0	E323105	122	UL 94 HB			
Thermal Class	Class			5 <u>#4</u> (В			E	R	F						

All of the information, suggestions, and recommendations pertaining to the products herein are based upon tests and data believed to be accurate; however, the final determination regarding the suitability of any material described herein for the use contemplated, 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. The Gund Company will not be liable for incidental or consequential loss or damage.