



THE GUND COMPANY

MANUFACTURERS & FABRICATORS OF ENGINEERED MATERIAL SOLUTIONS

ENGINEERING RESOURCE

TRANSFORMER MATERIAL COMPARATIVE DATA SHEET

Product Grades	The Gund. Co	Kraft Paper	S2S Hardboard	Pressboard	Ranprex Laminated Wood	HP1 Low Power Factor	G-10	G-11	Threaded Rods & Nuts	Nomex®	Dogbone (Rod) NTR N155/N220	GPO-3	APO-1	N155	N220	U205	Standoff Insulators	Filament Wound Tube	Tapes (Intertape)
	NEMA	--	--	--	--	HP1	G-10	G-11	--	--	--	GPO-3	GPO-1	GPO-1	GPO-1	--	--	--	--
	IEC	--	--	--	--	--	EPGC 201	EPGC 203	--	--	--	UPGM 203	UPGM 202	UPGM 201	UPGM 201	--	--	--	--
Construction		Cellulosic Paper	Compressed Wood Fiber (Cellulosic)	Cellulosic Board	Compressed Wood Veneers	Paper Phenolic	Glass Epoxy	Glass Epoxy	Glass Polyester	Aramid Paper	High Temp Pultruded Glass Fiber	Glass Polyester	Glass Polyester	High-Temp Glass Polyester	High-Temp Glass Polyester	Glass Polyester	Glass Polyester	Glass Epoxy	
Standard Thickness Available	In.	0.008-4.000	0.125, 0.187, 0.220	0.008-4.000	--	0.125-2.000	.006-5.00 0	--	--	.0006, .0012	--	0.118-2.000	0.031-2.000	0.031-2.000, 0.118-1.500	0.031-2.000, 0.118-1.500	0.118-2.362	--	--	
	mm	0.2-101.6	3, 4.75, 5.6	0.2-101.6	--	3.18, 50.8	0.15-127	--	--	0.02, 0.03	--	3-50.8	0.79-50.8	0.79-50.8, 3-50.8	0.79-50.8, 3-50.8	3-60	--	--	
Mechanical Properties	Units																		
Tensile Strength, Lengthwise	ksi	14	6.6	14	--	21	--	41	--	.083	60	9	9.5	12	11	21.75	5.6	--	
Compressive Strength	ksi	30	12.7	30	75	45	--	70	55	--	45	33	33	40	32	60	21.3	20	
Flexural Strength, LW	ksi	20	6.2	20	160	33	80	80	60	--	80	23	20	26	32	37.7	12.8	--	
Shear Strength	ksi	12.8	6.4	12.8	--	--	25	--	--	--	3	13	13	--	12	--	--	--	
IZOD Impact Strength, LW	ft.-lbs./in.	--	1.6	--	41	2	15	11	--	--	40	9.3	8.5	9.5	11.0	54.72	4.68	--	
Electrical Properties	Units																		
Arc Resistance	Seconds	--	--	--	--	--	130	--	--	--	--	192	180	150	180	--	--	--	
Dielectric Strength	V/mil	700	362	700	--	680	485	485	40	3,650	--	550	450	450	550	13,000	10,000	250	
Breakdown Voltage	kV	40	44	40	--	45	50	--	--	--	70	50	> 40	30	50	38	--	--	
Physical Properties	Units																		
Specific Gravity	g/cc	--	0.9	--	--	1.51	1.85	1.91	--	--	1.9	1.80	1.84	1.84	1.69	1.9	1.9	1.8	
Thermal Properties	Units																		
Relative Temperature Index	°C	--	--	--	--	105	130	180	--	220	155, 220	130	130	155	210	155	130	130, 180	
Flame Resistance	Class	UL 94 HB	--	UL 94 HB	--	--	UL 94 HB	UL 94 HB	ASTM D-635	UL 94 V-0	--	UL 94 V-0	UL 94 HB	UL 94 V-0	E323105	UL 94 V-0	UL 94 V-0	UL 94 HB	

The Gund Company offers a variety of Tape products to fit your application. Contact us for more info.

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