

THE GUND COMPANY

MANUFACTURERS & FABRICATORS OF ENGINEERED MATERIAL SOLUTIONS



Item:	G-Flex APA Flex Laminate
Description:	G-Flex APA are laminates with G-Flex aramid paper and polyester film. The material is available with our G-Flex aramid papers and electrical grade polyester film bonded a proprietary high temperature adhesive system. These laminates will not delaminate or blister at high temperatures. The polyester film contributes high dielectric strength, tear, and tensile and burst strength.
Applications:	G-Flex APA laminates are suitable for use as slot, phase and end turn insulation as well as ground and wrapper insulation in dry type transformers and a variety of punched and fabricated parts.
Benefits:	Laminates of aramid paper and polyester film provide the user with the benefits of both materials. The aramid paper provides already excellent electrical insulation properties, while the addition of the polyester film dramatically increases the dielectric strengths while increasing the overall durability and puncture resistance of the materials.

G-Flex APA Flexible Laminate Data											
Construction	Units	2/2/2	2/5/2	3/3/3	3/5/3	5/5/5	2/10/2	5/10/5	3/7.5/3		
	mil	7	10	10	12	16	15	21	14.5		
Standard Thickness	mm	0.17	0.25	0.25	0.3	0.4	0.37	0.53	0.36		
	in	0.007	0.010	0.010	0.012	0.016	0.015	0.021	0.014		
Yield	yd2/lb	3.02	1.90	2.05	1.62	1.22	1.19	0.87	1.27		
rieia	lb/yd2	0.33	0.53	0.49	0.62	0.82	0.84	1.14	0.78		
Tensile Strength	MD	86	126	140	171	210	200	246	206		
lb/in D882	CD	57	114	100	137	160	188	240	183		
Tear Strength	MD	8.5	17	16	26	27	20	35	30		
ASTM D1004	CD	7	12	11	18	18.5	14	31	22		
BVD	kV	9	16	12	16	18	20	25	18		
Dielectric Strength ASTM 149	V	11,000	16,000	13,000	17,000	19,000	20,000	22,000	19,500		

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