

THE GUND COMPANY

MANUFACTURERS & FABRICATORS OF ENGINEERED MATERIAL SOLUTIONS



G-Flex™ APA Flex Laminate

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 Typical Data												
Construction	Units	Test Method	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		
ve II	yd²/lb		3.02	1.90	2.05	1.62	1.22	1.19	0.87	1.27		
Yield	lb/yd²		0.33	0.53	0.49	0.62	0.82	0.84	1.14	0.78		
Tensile Strength	MD	ASTM D882	86	126	140	171	210	200	246	206		
lb/in	CD		57	114	100	137	160	188	240	183		
Tear Strength, lb	MD	ASTM D1004	8.5	17	16	26	27	20	35	30		
. car or engin, is	CD		7	12	11	18	18.5	14	31	22		
Breakdown Voltage (BDV)	kV	ASTM 149	9	16	12	16	18	20	25	18		
Dielectric Strength	V	ASTM 149	11,000	16,000	13,000	17,000	19,000	20,000	22,000	19,500		

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.