

THE GUND COMPANY

MANUFACTURERS & FABRICATORS OF ENGINEERED MATERIAL SOLUTIONS

YT511



Item:	G-Flex Meta-Aramid Paper YT511
Description:	G-Flex YT511 is the uncalendared version of YT510, giving it a lower density and increased absorption characteristics. It has the same chemical composition and thermal performance as G-Flex YT510.
Applications:	It is used in applications such as motor phase insulation and transformer coil end filler. The lower density and high conformability of G-Flex YT511 offers increased impregnability and saturability when compared to YT510, making it suitable for use in oil filled applications as well as cast core transformers or other applications where high saturation of resin is desirable.
Benefits:	The G-Flex YT511 exhibits exceptional electrical, mechanical, and thermal properties compared to all the alternatives in the market today. The table shows the typical data for major electrical, mechanical, and thermal properties by standard thickness.
UL File #:	E521153

	Test Method	Equivalent Test Standard						
Nominal Thickness	mil	5	7	10	15	23		
Nominal Inickness	mm	0.13	0.18	0.25	0.38	0.58		
Typical Thickness	mm	0.13	0.17	0.25	0.39	0.60	GB/T451.3-2002	ASTM D374
Basis Weight	g/m ²	42	64	80	140	205	GB/T451.3-2002	ASTM D646
Density	g/cc	0.31	0.37	0.32	0.35	0.34		
Toncilo Strongth N/cm	MD	25	40	45	62	94	GB/T12914-2008	ASTM D882
Tensile Strength, N/cm	CD	13	20	32	48	75		
Flangation %	MD	3.3	3.7	3.5	3.0	4.0		
Elongation, %	CD	4.5	5.0	4.5	3.7	5.0		
Elmendorf Tear Strength, N	MD	1.2	1.8	2.0	4.5	8.5	GB/T455-2002	TAPPI 414
Elmendori lear Strength, N	CD	1.8	3.0	3.5	7.0	9.0	GB/1455-2002	IAPPI 414
Dielestvie Strength	V/mil	229	229	203	203	178	- GB/T1408.1-2006	ASTM D419
Dielectric Strength	kV/mm	9	9	8	8	7		
Dielectric Constant	at 50Hz	1.3	1.3	1.3	1.4	1.4	GB/T1409-2006	ASTM D150
Dissipation Factor	50Hz (× 10 ⁻³)	4	4	4	5	5		
Relative Temp. Index (RTI)	°C	210	210	210	210	210		UL746B

MD=Machine Direction, CD=Cross Direction.

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.



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G-Flex™ Meta-Aramid Paper

G-Flex[™] is The Gund Company's brand of meta-aramid Paper. The Gund Company has used its broad engineering and application knowledge along with extensive testing and global relationships to bring our customers the G-Flex[™] Meta-Aramid Paper.

G-Flex[™] Meta-Aramid paper YT510 is manufactured from 100% aramid fibers. It carries a Temperature Index (TI) of 210°C, a VTM-O Flame Rating, and full UL approval (File #: E521153). This paper offers high inherent dielectric strength, mechanical toughness, flexibility, and resilience. Applications for G-Flex[™] include stator slot liners, phase insulations, coil wrap, conductor wrap, and other insulation applications for the electrical industry.

G-Flex[™] Meta-Aramid Paper Benefits

- Heat Resistance: G-Flex[™] Meta-Aramid paper has long-lasting thermal stability. It can be used for many hours at high temperatures while maintaining excellent dimensional stability. It will not embrittle, soften or melt when it is exposed temporarily at high temperatures of 300°C.
- Flame Resistance: It is inherently flame resistant. It does not self-burn or melt in the room air, no combustion-supporting, and has the property of self- extinguishing.
- Electrical Insulation: The meta-aramid fiber has very good electrical insulation properties. The dielectric strength of meta-aramid paper more than 20kv/mm.
- **Chemical Stability:** Meta-aramid fiber has a very stable chemical structure.
- **Strong Resistance:** At room temperature, it is resistant to most strong inorganic acids and alkalis.
- UL EIS Thermal Class: 220°C
- Sold World-wide: Directly from The Gund Company and readily available in 12 location.
- UL certified product: File # E521153
- Excellent Properties: Superior Dielectric Breakdown strength
- Additional thicknesses are available upon request.

Common Applications for G-Flex[™] Meta-Aramid Papers

- Stator Slot Liners
- Coil Wraps
 Formed Slot liners
- Formed Top Sticks Wire Wraps
- Slit into Tape Widths
- Phase Insulation
 Pole Collars
 Laminate Insulation

LINE CARD



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Material Data Sheet