



Composites For Today's Challenges

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Lamitex® Grade MF Tube Technical Data

Grade MF phenolic convolute wrapped tubes are reinforced with a medium weave cotton fabric. Very good mechanicals, high impact resistance and low noise output make it a good choice for mechanical applications and good electrical properties for medium voltage applications.. MF is also well suited as a low-friction/ high wear resistance material in aggressive and dust filled environments MF tubes meet or exceeds requirements specifications for Mil-I-24768/15/16 and NEMA grades C and L.

<u>Mechanical Properties</u>	<u>Test Method:</u>			<u>Conditioning</u>	
	<u>EN 61212-2</u>	<u>Standard</u>	<u>Test Specimen</u>	<u>IEC 212</u>	<u>Values</u>
Flexural Strength	4.1	ISO 178	id>3.937 inches	1	14,500 psi
Compressive Strength, Axial	4.2	ISO 604		1	23,200 psi
Cohesion between layers	4.3	EN 61212-2	id<3.937 inches	1	17,400 psi

Electrical Properties

Electric Strength in oil @ 90C:

Perpendicular to Laminations	5.1	IEC 243-1	.118 inch wall thk	2	50.8 Vpm
Parallel to Laminations	5.1	IEC 243-1	>.118 inch wall thk	2	15.2 kV/inch
Insulation resistance after immersion in water	5.2	IEC 167	id>.315 inch and or od>.394 inches	4	100 M ohm

Physical and Thermal Properties

Thermal endurance index @ 20,000 hrs	6.0	IEC 216		-	248°F T.I.
Density	7.2	IEC 1183-A	All	1	.722 oz/in ³
Water Absorption	7.1	IEC 62-1		4	6.9 ⁻⁶ oz/in ²

Conditioning: 1: 24h @ 73°F & 50%RH

2: 24h @ 73°F & 50%RH + 1hr in oil at 194°F

3: 96h @ 221°F + 1hr @ 73°F & 20%RH

4: 24h @ 122°F + 24hr in water at 73°F

The standard lengths for inside diameters .256" to 49.2" is 57.1, inches

All information and suggestions pertaining to the properties and uses of the materials described herein are based upon tests and data believed to be accurate; however, the final determination regarding the suitability of any material for such use is the sole responsibility of the user. No warranty is expressed or implied, including, without limitation, warrant of merchantability or fitness for a particular purpose. Under no circumstances shall Lamitex, LLC be liable for incidental or consequential loss or damage.

Composite Tubes • Bearings • Molded Shapes • Rotary Vanes • Fabricated Parts • Vulcanized Fibre • High Temp Insulation