

### Lamitex® Grade MF G Tube

MF G convolute wrapped tubes are medium weave cotton fabric impregnated with a modified graphite phenolic resin. It is well suited for mechanical applications requiring high impact, noise-reduction and or wear-resistance properties in aggressive and dust filled environments. MF G can be lubricated with water, oil or grease. Application examples are: Bearing bushings, rudder bearings and guide rings for hydraulic cylinders.

<u>Mechanical Properties</u>	Test Method:		Conditioning		
	EN 61212-2	Standard	Test Specimen	IEC 212	Values
Flexural Strength	4.1	ISO 178	id>3.937 inches	1	14,500 psi
Compressive Strength, Axial	4.2	ISO 604		1	26,100 psi
Cohesion between layers	4.3	EN 61212-2	id<3.937 inches	1	20,300 psi

### Electrical Properties

Electric Strength in oil @ 90C:

Perpendicular to Laminations	5.1	IEC 243-1	.118 inch wall thk	-
Parallel to Laminations	5.1	IEC 243-1	>.118 inch wall thk	-
Insulation resistance after immersion in water	5.2	IEC 167	id>.315 inch and or od>.394 inches	-

### Physical and Thermal Properties

Thermal endurance index @ 20,000 hrs	6.0	IEC 216	$\geq 3.0\text{mm}$	-	212°F T.I.
Density	7.2	IEC 1183-A	All	1	1.3 g/cm <sup>3</sup>
Water Absorption	7.1	ASTM D224	.125" wall		1.60%

Coefficient of Friction (Static 40 psi)	.29
Coefficient of Friction (Dynamic 40 psi, 50 fpm)	.25
Limiting PV (LPV) 100 fpm	37,500
Wear Factor $10^{-10} \text{ in}^3 \text{ min/Ft/lb/Hr}$ Bearing	1,110

Conditioning: 1: 24h @ 73°F & 50%RH

The standard lengths for inside diameters .591" 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