



FRANKLIN

Composites for Today's Challenges

FRANKLIN FIBRE – LAMITEX CORPORATION
903 E 13th St., Wilmington, DE 19802

Phone: (302) 652-3621
Fax: (302) 652-3621
e-mail: info@franklinfibre.com

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>	<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	26,100 psi
Cohesion between layers	4.3	EN 61212-2	id<3.937 inches	1	20,300 psi
 <u>Electrical Properties</u>					
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		-
 <u>Physical and Thermal Properties</u>					
Thermal endurance index @ 20,000 hrs	6.0	IEC 216	≥3.0mm	-	212°F T.I.
Density	7.2	IEC 1183-A	All	1	1.3 g/cm ³
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 in ³ 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 values are average test results from typical production material and extensive testing.
No Warranty is implied or guaranteed and testing is recommended for each application.

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

FRANKLIN FIBRE – LAMITEX CORPORATION

Jan. 1, 2017 Rev. -