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Lamitex MFG Sheet Technical Data

Lamitex grade MFG is a cotton fabric impregnated with a graphite modified phenolic resin formulation. Its' low co-efficient of friction gives MFG very good high wear resistance in aggressive high mechanical load applications and dust-filled environments. MFG has good dry-run properties and can be lubricated with water, oil or grease. Typical applications are: bearings, slide pads, slide rails, saw guides & pressure blocks, vanes for pneumatic tools and starters and vanes in vacuum pumps.

<u>Mechanical Properties</u>	Test Method: EN60893-2	Test	Conditioning	<u>Metric</u>	<u>Imperial</u>
	Standard	Specimen Thickness		IEC 212	Values
Flexural Strength at RT	ISO 178	≥1.6mm	1	135 Mpa	19,600 psi
Modulus of Elasticity	ISO 178	≥1.6mm	1	7,000 Mpa	10.1 x 10 ⁵ psi
Compressive Strength: Perpendicular to Laminations	ISO 604	≥5.0mm	1	330 MPa	47,850 psi
Izod Impact Strength: Parallel to Laminations	ISO 180/2A	≥5.0mm	1	10 kJ/m ²	4.75 ft.lb/in ²
Shearing Strength, Parallel to Laminations	EN 60893-2	≥5.0mm	1	50 MPa	7,250 psi
Tensile Strength	ISO 527	≥1.6mm	1	80 MPa	11,600 psi
Typical Coefficient of Friction, unlubricated				μ 0.25 - 0.29	
<u>Physical and Thermal Properties</u>					
Thermal endurance index @ 20,000 hrs	IEC 216	≥3.0mm		120° C	120° C
Density	IEC 1183-A	All	1	1.40 g/cm ³	1.40 g/cm ³
Water Absorption	IEC 62-1	50x50x3 mm	1	120 mg	1.25% by wgt.

Conditioning: 1: 24h @ 23°C & 50%RH

All values are average results from 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