



FRANKLIN

Composites for Today's Challenges

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Lamitex® LEP Performance Values

Lamitex® LEP grade material is a fine weave cotton based composite infused with an epoxy resin matrix. LEP was formulated with the idea of making our cotton/phenolic grade LE more moisture resistant. This material has been used in the cryogenic, rotary vacuum and ball bearing industry with great success over many years

<u>Physical Properties</u>	<u>Test Condition</u>	<u>ASTM</u>	<u>Values</u>
Specific Gravity		D792	1.32
Rockwell Hardness (M Scale)		D785	105
Moisture Absorption (maximum)	D 24/23	D229	0.70%
Tensile Strength	24 hr/23°C/50%RH	ASTM D638	12,000 psi
Compressive Strength (.196" thk) Flatwise	24 hr/23°C/50%RH	ASTM D695	30,000 psi
Compressive Modulus	Condition A LW / CW		400 psi
<u>Thermal & Electrical Properties</u>			
Temperature Index	Electrical / Mechanical		140°C / 140°C
Flammability Rating		U.L. 94	HB V-0
Breakdown Voltage	Condition A / Condition D -48/50		75 kV / 30 kV
Electric Strength	Condition A / Condition D -48/50		300 V/mil / 280 V/mil

All values are average test results from typical production material. 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

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5/29/20 Rev. a