



FRANKLIN

MANUFACTURERS & FABRICATORS OF
ELECTRICAL INSULATION MATERIALS
SINCE 1921

Composites for Today's Challenges

FRANKLIN FIBRE – LAMITEX CORPORATION

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MATERIAL DATA SHEET

Material: Lamitex® Grade CYB Cotton/Phenolic Laminate Sheet

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

Standards: NEMA LI-1 Grade None
MIL-I-24768 None

Availability: CYB is also manufactured as round tubes (convolute wound), molded channel, angle, square and rectangular tubes and fabricated custom parts.

Physical Properties	Test Condition	ASTM	Typical Values
Specific Gravity (.062")		D792	1.40
Rockwell Hardness .250" (M Scale)		D785	90
Moisture Absorption (.062")(maximum)		D229	2.20 %
Flexural Strength (.062")	Condition A:	Lengthwise	19,000 psi
		Crosswise	15,000 psi
Tensile Strength	Condition A:	Lengthwise	10,000 psi
		Crosswise	7,000 psi
Compressive Strength (.500")	Condition A:	Flatwise	38,000 psi
Izod Impact Strength (.500" thick)	E48/50:	Lengthwise	1.7 ft-lb/in.(notch)
		Crosswise	1.4 ft-lb/in.(notch)
Bond Strength (.500" thick)	Condition A	D229	1,800 lbs

Thermal Properties

Temperature Index Electrical / Mechanical			-- / 125° C
Coefficient of Thermal Expansion (.062")	x - axis		18.0 in/in/°C x 10 ⁻⁶
Coefficient of Thermal Expansion (.062")	y - axis		24.0 in/in/°C x 10 ⁻⁶
U.L.® 94 Flammability Rating			94-HB

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 Franklin Fibre - Lamitex Corp. be liable for incidental or consequential loss or damage.