

## 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), rods, 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 Crosswise	D229	19,000 psi 15,000 psi
Tensile Strength	Condition A: Lengthwise Crosswise		10,000 psi 7,000 psi
Compressive Strength (.500")	Condition A: Flatwise	D695	38,000 psi
Izod Impact Strength (.500" thick)	E48/50: Lengthwise Crosswise	D229	1.7 ft-lb/in.(notch) 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 <sup>-6</sup>
Coefficient of Thermal Expansion (.062")	y - axis		24.0 in/in/°C x 10 <sup>-6</sup>
U.L.® 94 Flammability Rating			94-HB

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