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ELECTRICAL INSULATION MATERIALS
SINCE 1921

Composites for Today's Challenges

FRANKLIN FIBRE – LAMITEX CORPORATION

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MATERIAL DATA SHEET

Material: Lamitex® Grade C Cotton/Phenolic Laminate Sheet

Description: Lamitex® C cotton/phenolic sheet is intended for use in mechanical applications requiring high impact strength. It has lower mechanical strength than materials with glass substrates, but has superior impact resistance when compared to paper based laminates.

Standards: NEMA LI-1 Grade C
MIL-I-24768 / 16 Type FBM
EN 60893 PF CC 203
Din Hgw 2082

Availability: Grade C 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
Thickness			.125"
Specific Gravity		D792	1.36
Rockwell Hardness (M Scale)		D785	103
Moisture Absorption (maximum)		D229	2.50%
Flexural Strength	Condition A:	Lengthwise	17,000 psi
		Crosswise	16,000 psi
Tensile Strength	Condition A:	Lengthwise	10,000 psi
		Crosswise	8,000 psi
Compressive Strength	Condition A:	Flatwise	37,000 psi
		Edgewise	23,500 psi
Izod Impact Strength (.500" thick)	E48/50:	Lengthwise	1.9 ft-lb/in. (notch)
		Crosswise	1.7 ft-lb/in. (notch)
Bond Strength (.500" thick)	Condition A	D229	1,800 lbs

Thermal Properties

Temperature Index Electrical / Mechanical			115° C / 125° C
Coefficient of Thermal Expansion			20.0 cm/cm/°C x 10 ⁻⁶
U.L.® 94 Flammability Rating			94-HB

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