FRANKLIN

Franklin Fibre - Lamitex Corp.

Composites for Today's Challenges

Lamitex® G-3 Glass/Phenolic Sheet

Lamitex® G3 glass/phenolic laminated sheet is most frequently preferred for application that require high flexural and impact strengths and good electrical properties under low relative humidity conditions. . Lamitex G-3 meets or exceeds NEMA G-3, Mil-I-24768/18 specifications and meets UL 94-HB requirements.

Physical Properties	Test Condition		ASTM	Values
Thickness				.062"
Specific Gravity			D792	1.85
Rockwell Hardness (M Scale)			D785	110
Moisture Absorption (maximum)	D 24/23		D229	2.0%
Flexural Strength	Condition A:	Lengthwise	D229	55,000 psi
		Crosswise		50,000 psi
Flexural Modulus	Condition A:	Lengthwise		1,800 kpsi
		Crosswise		1,400 kpsi
Tensile Strength (0.125")	Condition A:	Lengthwise		42,000 psi
		Crosswise		34,000 psi
Compressive Strength (0.500")	Condition A:	Flatwise	D695	76,000 psi
Izod Impact Strength (.500" thick)	E48/50:	Lengthwise	D229	12.0 ft-lb/in.(notch)
		Crosswise		11.0 ft-lb/in.(notch)
Bond Strength (.500" thick)	Condition A		D229	1,500 lbs.
Thermal & Electrical Properties				
Temperature Index	Electrical/Mechanical			140° C / 170° C
Coefficient of Thermal Expansion "/"/°C/ x 10^{-6}	X- axis/Y-axis			15.0/18.0
U.L.® 94 Flammability Rating				94-HB
Dielectric Breakdown Voltage (step x step)	Condition A		D229	55.0 kV
	D 48/50		D229	40 kV
Maximum Permittivity @ 1 MHz	Condition A		D229	7.80
	D 24/23		D229	8.00
Maximum Dissipation @ 1 MHz	Condition A		D229	0.020
	D 24/23		D229	0.080
Dielectric Strength (short time)	Condition A		D229	600 Vpm
	D 48/50		D229	580 Vpm
Arc Resistance (0.125")	Condition A		D 495	100 seconds
Comparative Tracking Index (CTI) (0.125")			D 3638	150 V

All values are average test results from typical production material. No Warranty is implied or guaranteed and testing is recommended for each application

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