



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.

<u>Physical Properties</u>	<u>Test Condition</u>	<u>ASTM</u>	<u>Values</u>
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 $"/"^\circ\text{C} \times 10^{-6}$	X- axis/Y-axis	15.0/18.0
U.L.® 94 Flammability Rating		94-HB
Dielectric Breakdown Voltage (step x step)	Condition A	55.0 kV
	D 48/50	40 kV
Maximum Permittivity @ 1 MHz	Condition A	D229
	D 24/23	7.80
Maximum Dissipation @ 1 MHz	Condition A	D229
	D 24/23	8.00
Dielectric Strength (short time)	Condition A	D229
	D 48/50	0.020
Arc Resistance (0.125")	Condition A	D 495
Comparative Tracking Index (CTI) (0.125")		D 3638
		100 seconds
		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

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 Lamitex, LLC be liable for incidental or consequential loss or damage.

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