



FRANKLIN

**PLASTICS & NON-METALLICS
FOR INDUSTRY SINCE 1921**

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Lamitex® G - 5 Tube Technical Data

Lamitex® G - 5 melamine convolute wrapped tubes are reinforced with woven glass fabric. They are used for mechanical and electrical applications where arc or arc track resistance is required. G - 5 is a self-extinguishing halogen free composite with good flame resistance that meets NEMA G-5 requirements.

<u>Mechanical Properties</u>	<u>Test Method:</u>			<u>Conditioning</u>	
	<u>EN 61212-2</u>	<u>Standard</u>	<u>Test Specimen</u>	<u>IEC 212</u>	<u>Values</u>
Flexural Strength	4.1	ISO 178	id>3.937 inches	1	26,100 psi
Compressive Strength, Axial	4.2	ISO 604		1	21,755 psi
Cohesion between layers	4.3	EN 61212-2	id<3.937 inches	1	29,000 psi
 <u>Electrical Properties</u>					
Electric Strength in oil @ 90C:					
Perpendicular to Laminations	5.1	IEC 243-1	.118 inch wall thk	2	83.8 Vpm
Parallel to Laminations	5.1	IEC 243-1	>.118 inch wall thk	2	25.4 kV/ inch
Insulation resistance after immersion					
in water	5.2	IEC 167	id>.315 inch and or od>.394 inches	4	1 M ohm
Permittivity:	5.3	IEC 250		3	6
1 MHz	5.3	IEC 250		3	6
Dissipation Factor:	5.3	IEC 250		3	0.02
1 MHz	5.3	IEC 250		3	0.01
 <u>Physical and Thermal Properties</u>					
Thermal endurance index @ 20,000 hrs	6.0	IEC 216		-	266°F T.I.
Density	7.2	IEC 1183-A	All	1	1.04 oz/in ³
Water Absorption	7.1	IEC 62-1		4	1.14 ⁻³ oz/in ²

Conditioning: 1: 24h @ 73°F & 50%RH
2: 24h @ 73°F & 50%RH + 1hr in oil at 194°F
3: 96h @ 221°F + 1hr @ 73°F & 20%RH
4: 24h @ 122°F + 24hr in water at 73°F
5: 96h @ 221°F + 1hr in oil at 194°F

The standard length(s) for IDs .315" to 49.2" is 48 inches.

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

Epoxies • Phenolics • Melamine • Silicone • Sheets • Molded Shapes • Tubes • Cut to Size • Fabricated Parts

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