



FRANKLIN

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

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Lamitex® Grade CE Tube Technical Data

Lamitex® grade CE phenolic convolute wrapped tubes are reinforced with a medium weave cotton fabric. They are used primarily for mechanical applications where impact resistance, low noise output and good wear resistance is needed. CE is well suited as a low-friction/high wear resistance material in aggressive and dust-filled environments. Examples of applications are bearing bushes, rudder bearings and guide rings for hydraulic cylinders.

<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	14,500 psi
Compressive Strength, Axial	4.2	ISO 604		1	23,200 psi
Cohesion between layers	4.3	EN 61212-2	id<3.937 inches	1	17,400 psi
 <u>Electrical Properties</u>					
Electric Strength in oil @ 90C:					
Perpendicular to Laminations	5.1	IEC 243-1	.118 inch wall thk	2	50.8 Vpm
Parallel to Laminations	5.1	IEC 243-1	>.118 inch wall thk	2	15.2 kV/ inch
Insulation resistance after immersion in water	5.2	IEC 167	id>.315 inch and or od>.394 inches	4	100 M ohm
 <u>Physical and Thermal Properties</u>					
Thermal endurance index @ 20,000 hrs	6.0	IEC 216		-	248°F T.I.
Density	7.2	IEC 1183-A	All	1	.722 oz/in ³
Water Absorption	7.1	IEC 62-1		4	6.9 ⁻⁶ 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 lengths for inside diameters .256" to 39.37" is 53 inches or for IDs >.591 to 49.2 is 57 inches

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

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

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March 15, 2009 Rev. c