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## Composites for Today's Challenges

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## Lamitex® Grade LE Tube Technical Data

Lamitex® Grade LE phenolic convolute wound tubes are reinforced with a 76x76 bleached fine weave cotton fabric. It is a dimensionally stable material intended for electrical insulation and fine machining applications requiring good moisture resistance. Examples of applications are ball-bearing cages for spindle bearings and guide rings for hydraulic cylinders.

			Conditionin	
	<b>Standard</b>	<u>Test Specimen</u>	g <u>IEC 212</u>	<u>Values</u>
Flexural Strength	ISO 178	id>3.937 inches	1	100 Mpa / 14,554 psi
Compressive Strength, Axial	ISO 604		1	170 Mpa / 24,650 psi
Cohesion between layers	EN 61212-2	id<3.937 inches	1	130 Mpa / 18,855 psi
Electrical Properties Electric Strength in oil @ 90C:				
Perpendicular to Laminations	IEC 243-1	.118 inch wall thk	2	3 kV/25 mm -76.2 Vpm
Parallel to Laminations	IEC 243-1	>.118 inch wall thk	2	3 kV/25 mm - 20.3 kV/ inch
Insulation resistance after immersion in water	IEC 167	id>.315 inch and or od>.394 inchs	3	200 M ohm
<b>Physical and Thermal Properties</b>				
Thermal endurance index @ 20,000 hrs	IEC 216		-	248°F / 120°C T.I.
Density	IEC 1183-A	All	1	1.25g/cm <sup>3</sup>
Water Absorption	ASTM D348		$D_1$ -24/23	2.5%

Conditioning: 1: 24h @ 23°C(73°F) & 50%RH

2: 24h @ 23°C(73°F) & 50%RH + 1hr in oil @ 90°C(194°F) 3: 24h @ 50°C(122°F) + 24hr in water @ 23°C(73°F)

The standard length for inside diameters .118" to .591" is 53.1 inches and for IDs >.591 to 49.2" is 57.1 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.

Composite Tubes · Bearings · Molded Shapes · Rotary Vanes · Fabricated Parts · Vulcanized Fibre · High Temp Insulation