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### Lamitex® G-30 Tube Technical Data

G-30 Polyimide convolute wrapped tubes are reinforced with a woven glass fabric. It is primarily used for mechanical and electrical applications where high mechanical strengths and low thermal conductivity at high temperatures are required.

<u>Mechanical Properties</u>	<u>Test Method:</u>			<u>Conditioning</u>		<u>Values</u>
	<u>EN 61212-2</u>	<u>Standard</u>	<u>Test Specimen</u>	<u>IEC 212</u>		
Flexural Strength	4.1	ISO 178	id>.3937 inches	1		55,100 psi
Compressive Strength, Axial	4.2	ISO 604		1		43,500 psi
Cohesion between layers	4.3	EN 61212-2	id<.3937 inches	1		66,700 psi
 <u>Electrical Properties</u>						
Electric Strength in oil @ 90C:						
Perpendicular to Laminations	5.1	IEC 243-1	.118 inch wall thk	2		254 kVpm
Parallel to Laminations	5.1	IEC 243-1	>.118 inch wall thk	2		71 kV/inch
Insulation resistance after immersion in water	5.2	IEC 167	id>.315 inch and	4		1,000 M ohm
Permittivity: 50Hz	5.3	IEC 250	or od>.394 inches	3		4
Dissipation Factor: 50Hz	5.3	IEC 250		3		0.01
 <u>Physical and Thermal Properties</u>						
Maximum Operating Temperature: Electircal/Mechanical						428°F/428°F
Density	7.2	IEC 1183-A	All	1		1.9 g/cm <sup>3</sup>
Water Absorption % of wght.			.125" wall			0.18%

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: 96h @ 105°C(221°F) + 1hr @ 23°C(73°F) & 20%RH  
4: 24h @ 50°C(122°F) + 24hr in water @ 23°C(73°F)

The standard length for inside diameters .318" 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.

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

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December 18, 2017 Rev.a