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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>Standard</u>	<u>Test Specimen</u>	<u>Conditioning</u>		<u>Values</u>
			<u>IEC 212</u>		
Flexural Strength	ISO 178	id >100 mm	1		360 MPa
Compressive Strength, Axial	ISO 604		1		300 MPa
Cohesion between layers	EN 61212-2	id >100 mm	1		460 MPa
<u>Electrical Properties</u>					
Electric Strength in oil @ 90C:					
Perpendicular to Laminations	IEC 243-1	3.0 mm wall thk	2		10 kV/mm
Parallel to Laminations	IEC 243-1	3.0 mm wall thk	2		70 kV/25mm
Insulation resistance after immersion in water	IEC 167	id > 8mm and/or >10 mm OD	4		1,000 M ohm
Permittivity:	50Hz	IEC 250	3		4.0
Dissipation Factor:	50Hz	IEC 250	3		0.01
<u>Physical and Thermal Properties</u>					
Thermal endurance index 20,000 hrs (T.I.)					220°C
Density	IEC 1183-A	All	1		1.90 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.