



## 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>	Test Method:			Conditioning	
	<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	55,100 psi
Compressive Strength, Axial	4.2	ISO 604		1	43,500 psi
Cohesion between layers	4.3	EN 61212-2	id<3.937 inches	1	66,700 psi

### Electrical Properties

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 inchs	3	4
Dissipation Factor: 50Hz	5.3	IEC 250		3	0.01

### Physical and Thermal Properties

Maximum Operating Temperature: Electrical/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 information and suggestions pertaining to the properties and uses of the materials described herein are based upon tests and data believed to be accurate; however, the final determination regarding the suitability of any material for such use is the sole responsibility of the user. No warranty is expressed or implied, including, without limitation, warrant of merchantability or fitness for a particular purpose. Under no circumstances shall Lamitex, LLC be liable for incidental or consequential loss or damage.

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