



FRANKLIN

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

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Lamitex® G7 Tube Technical Data

Lamitex® G-7 glass silicone tubes are used in mechanical, electrical and electronic constructions at elevated temperatures. It retains good electrical properties at elevated temperatures, is self-extinguishing and has a low dielectric loss factor at high frequencies. It is frequently used for nozzle insulators in wire welding guns where a shielding gas is used.

<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>3.937 inches	1		17,404 psi
Compressive Strength, Axial	4.2	ISO 604		1		9,424 psi
Cohesion between layers	4.3	EN 61212-2	id<3.937 inches	1		21,755 psi
 <u>Electrical Properties</u>						
Electric Strength in oil @ 90C:						
Perpendicular to Laminations	5.1	IEC 243-1	.118 inch wall thk	2		254 Vpm
Parallel to Laminations	5.1	IEC 243-1	>.118 inch wall thk	2		50.8 kV/ inch
Insulation resistance after immersion		IEC 167	id>.315 inch and			10,000 M ohm
in water	5.2		or od>.394 inches	4		
Permittivity:		IEC 250		3		4.5
1 MHz	5.3	IEC 250		3		4.5
Dissipation Factor:		IEC 250		3		0.01
1 MHz	5.3	IEC 250		3		0.01
 <u>Physical and Thermal Properties</u>						
Thermal endurance index @ 20,000 hrs	6.0	IEC 216		-		410°F T.I.
Density	7.2	IEC 1183-A	All	1		1.041 oz/in ³
Water Absorption	7.1	IEC 62-1		4		4.56 ⁻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 length for all sizes is 48"

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.

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

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