

Lamitex® G7 Glass Silicone Tube

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 mast arm and other melt shop electrical insulation applications.

<u>Mechanical Properties</u>	<u>Test Method</u>	<u>Test Specimen</u>	<u>Conditioning</u> <u>IEC 212</u>	<u>Values</u>
Flexural Strength	ISO 178	id>3.937 inches	1	17,400 psi
Compressive Strength, Axial	ISO 604		1	9,425 psi
Cohesion between layers	EN 61212-2	id<3.937 inches	1	21,755 psi
 <u>Electrical Properties</u>				
Electric Strength in oil @ 90C:				
Perpendicular to Laminations	IEC 243-1	.118 inch wall thk	2	170 kV/mil
Parallel to Laminations	IEC 243-1	>.118 inch wall thk	2	50.8 kV/ inch
Insulation resistance after immersion	IEC 60167	id>.315 inch and		5,000 M Ω
in water		or od>.394 inches	4	
Permittivity:	50Hz	IEC 60250	3	4.0
	1 MHz	IEC 60250	3	4.0
Dissipation Factor:	50Hz	IEC 60250	3	0.006
	1 MHz	IEC 60250	3	0.006
 <u>Physical and Thermal Properties</u>				
Thermal endurance index (TI) @ 20,000 hrs	IEC 60216		-	210°C
Density	ISO 1183-A	All	1	1.8 g/cm ³
Moisture Absorption (maximum)	ASTM D229		D 24/23	0.35%

The standard tube length is 48"

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

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.

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