FRANKLIN LAMITEX, LLC

Composites For Today's Challenges

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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.

Mechanical Properties	Test Method	Test Specimen	Values	
Flexural Strength	ISO 178	id>3.937 inches	120 Mpa / 17,400 psi	*1
Compressive Strength, Axial	ISO 604		65 Mpa / 9,425 psi	*1
Cohesion between layers	EN 61212-2	id<3.937 inches	150 Mpa / 21,755 psi	*1
Electrical Properties				
Electric Strength in oil @ 90C:				
Perpendicular to Laminations	IEC 243-1	.118 inch wall thk	6.7 kV/mm / 170kV/mil	*2
Parallel to Laminations	IEC 243-1	>.118 inch wall thk	40 kV/25 mm / 40.6 kV/ in.	*2
Insulation resistance after immersion in water	IEC 60167	id>.315 inch and or od>.394 inchs	5,000 M Ω	*4
Permittivity: 50Hz	IEC 60250		4.0	*3
1 MHz	IEC 60250		4.0	*3
Dissipation Factor: 50Hz	IEC 60250		0.006	*3
1 MHz	IEC 60250		0.006	*3
Physical and Thermal Properties				
Thermal endurance index (TI) @ 20,000 hrs	IEC 60216		210°C	
Density	ISO 1183-A	All	1.8 g/cm^3	*1
Moisture Absorption (maximum) D 24/23	ASTM D229		0.35%	

IEC 212 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

G7 Glass Silicone Laminate recognized material designations:
EN 60893 - SI GC 202
DIN 7735 - Hgw 2572
NEMA LI-1 - G7
Mil-I-24768/17 type GSG

The standard tube length is 48"