

PLASTICS & NON-METALLICS FOR INDUSTRY SINCE 1921

Phone: (302) 652-3621 Fax: (302) 571-9754

e-mail: info@franklinfibre.com

FRANKLIN FIBRE – LAMITEX CORPORATION

P.O.Box 1768, Wilmington, DE 19899

Lamitex® G-5 Tube Technical Data

Lamitex® G-5 melamine convolute wrapped tubes are reinforced with woven glass fabric. They are used for mechanical and electrical applications where arc or arc track resistance is required. G-5 is a self-extinguishing halogen free composite with good flame resistance that meets NEMA G-5 requirements.

		Test Method:			Conditioning	
Mechanical Properties		EN 61212-2	Standard	Test Specimen	<u>IEC 212</u>	<u>Values</u>
Flexural Strength		4.1	ISO 178	id>100 mm	1	180 Mpa
Compressive Strength, Axial		4.2	ISO 604		1	150 MPa
Cohesion between layers		4.3	EN 61212-2	id<100 mm	1	200 MPa
Electrical Properties						
Electric Strength in oil @ 90C:						
Perpendicular to Laminations		5.1	IEC 243-1	3 mm wall thk	2	3.3 kV/mm
Parallel to Lar	ninations	5.1	IEC 243-1	>3 mm wall thk	2	25 kV/25 mm
				id>8mm and or		
Insulation resistance after immersion in water		5.2	IEC 167	od>10mm	4	1 M ohm
Permittivity:	50Hz	5.3	IEC 250		3	6
	1 MHz	5.3	IEC 250		3	6
Dissipation Factor:	50Hz	5.3	IEC 250		3	0.02
	1 MHz	5.3	IEC 250		3	0.01
Physical and Thermal Properties						
Thermal endurance index @ 20,000 hrs		6.0	IEC 216		-	130°C T.I.
Density		7.2	IEC 1183-A	All	1	1.8 g/cm ³
Water Absorption		7.1	IEC 62-1		4	5.0 mg/cm^2

Conditioning: 1: 24h @ 23°C & 50%RH

2: 24h @ 23°C & 50%RH + 1hr in oil at 90°C

3: 96h @ 105°C + 1hr @ 23°C & 20%RH 4: 24h @ **50**°C + 24hr in water at 23°C

5: 96h @ 105°C + 1hr in oil at 90°C

The standard length(s) for IDs > 8 mm to 1250 mm is 1220 mm.

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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