



## Lamitex® G-30 Sheets

Lamitex® glass filled G-30 Polyimide high pressure laminate sheets are the most temperature resistant laminate made. G-30 is most frequently used where high mechanical and electrical strengths, dimensional stability and low thermal conductivity at high continuous application temperatures are required.

<u>Mechanical Properties</u>	<u>Conditioning</u>		<u>Test Method</u>	<u>Test Specimen</u>	<u>Values</u>
	<u>IEC 212</u>				
Flexural Strength	1		ISO 178	≥ 1,6 mm	450 MPa
Flexural Strength at Elevated Temperatures	E		ISO 178	≥ 1,6 mm	360 <sup>(a)</sup> MPa
Modulus of Elasticity	1		ISO 178	≥ 1,6 mm	25.000 MPa
Compressive Strength	1		ISO 604	≥ 5,0 mm	650 MPa
Izod Impact Strength Parallel	1		ISO 180/2A	≥ 5,0 mm	55 kJ/m <sup>2</sup>
Shearing Strength Parallel	1		EN 60893-2	≥ 5,0 mm	70 MPa
Tensile Strength	1		ISO 527	≥ 1,6 mm	300 MPa
 <u>Electrical Properties</u>					
Electric Strength in oil @ 90°C:					
Perpendicular to Laminations	2		IEC 243-1	3,0 mm thk	20,0 kV/mm
Parallel to Laminations	2		IEC 243-1	> 3,0 mm thk	60 kV/25 mm
Insulation Resistance after Immersion in Water	4		IEC 167	All	1.000 M ohm
Permittivity: 50Hz	3		IEC 250	≤ 3,0 mm thk	4,0
Dissipation Factor: 50Hz	3		IEC 250	≤ 3,0 mm thk	0,01
Comparative Tracking Index	1		IEC 112	≥ 3,0 mm thk	250 CTI
 <u>Physical and Thermal Properties</u>					
Maximum Operating Temperature: Electrical/Mechanical					240°C/240°C
UL Flammability Rating	1		IEC 216	3,0 mm thk	94-V0
Density	1		IEC 1183-A	All	1,95 g/cm <sup>3</sup>
Water Absorption	1		ASTM D570	1.5 mm	<.35%

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

Note: (a) 1h @ 200°C / measured at 200°C

The standard sheet size is 1250 mm x 1250 mm and thicknesses manufactured are 0,15 mm to 150 mm

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