



# LA MISOLET

Working Of Electric And Thermo Insulating Materials

CNC machining by customers' drawing  
Blanked findings  
Direct selling  
Sheets and panels – Rods – Tubes made of:  
Bakelized Cloth and Bakelized Paper  
Epoxy Glass Nema G10 and G11,  
Silicone Nema G7 and Melamine Nema G5  
Polyester Glass GPO3  
Thermo Insulating Materials – Mica, Micanite  
TOOLING, BLANKING AND DIEMAKING

## DATA SHEET

Laminate: **MISOGLASS1**

**Description:** Glass mat and special epoxy resin laminate, suitable for continuous operating temperature at 220° C. Main characteristics:

**Applications:** Misoglass1 is suitable for applications requiring a thermo insulating material having high compressive strength (e.g. for presses). It has excellent mechanical and physical properties under compression at high temperatures.

		unit	average values	Norm
<b>Physical properties</b>	Colour		light beige	
	Specific gravity	g/cm <sup>3</sup>	1,9	ISO 1183
	Water absorption (thickness 4mm)	%	0,2	ISO 62
	Sheet size	mm	2440x1220	
		mm	1900x1000	
	Available thicknesses	mm	4 ÷ 50	
<b>Mechanical properties</b>	Bending strength(perpendicular)	N/mm <sup>2</sup>	360	ISO 178
	Modulus of elasticity(perp.)	N/mm <sup>2</sup>	18000	ISO 178
	Compressive strength RT (perp.)	N/mm <sup>2</sup>	500	ISO 604
	Tensile strength (parallel)	N/mm <sup>2</sup>	280	ISO 527
	Impact strength (perpendicular)	kJ/m <sup>2</sup>	150	ISO 179
	Delamination force RT (parallel)	N	360	CEI
<b>Thermal properties</b>	Thermal classification		H	IEC 60213 IEC 60085
	Continuous operating temperature	°C	220	
	Maximum operating temperature	°C	280	
	Thermal conductivity	W/m°C	0,35	
	Coefficient of linear expansion	10 <sup>-6</sup> /K	15	
<b>Electrical properties</b>	Electric strength (perpendicular)	kV/mm	13	IEC 60243
	Breakdown Voltage //	kV	70	IEC 60243
	Surface resistivity	Ohm	10 <sup>^10</sup>	IEC 60093
	Track resistance	CTI	CTI 150	IEC 60112
	Permittivity	---	5	IEC 60250

We inform you that the data reported on the data sheet are provided to the end user for the sole purpose of providing a range of parameters in order to assess the hypothetical suitability of the product to the actual use of the same, therefore to be considered indicative as they represent average values from laboratory tests. **The user must then test the product to determine its properties and its suitability for its intended use.** Misolet s.r.l expressly disclaims all liability for any damage, injury and costs to persons and/or property, arising directly or indirectly from the use of the product that has not been preceded by tests with respect to the conditions of use to which the same will be intended. The data contained in this data sheet does not constitute a guarantee of any kind, express or implied, including any suitability for a particular use or purpose.

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Laminate: **MISOGLASS1**



THICKNESS mm	TOLERANCE	Particular properties:
4,0	± 0,50	- high compressive strength up to 220° C - excellent dielectric properties - good performance at high frequency
5,0	± 0,55	
6,0	± 0,60	
8,0	± 0,70	
10,0	± 0,80	
12,0	± 0,90	
15,0	± 1,10	
20,0	± 1,30	
25,0	± 1,40	
30,0	± 1,45	
40,0	± 1,55	
50,0	± 1,75	
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TO BE KEPT in dry stores, in a horizontal position

We are available to effect cutting to measurement as well as machining to drawing of parts by CNC