



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 and Micanite

TOOLING, BLANKING AND DIEMAKING

DATA SHEET

Laminate:

MISOGLOSS1

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
Physical properties	Colour		light beige	
	Specific gravity	g/cm ³	1,9	ISO 1183
	Water absorption (thickness 4mm)	%	0,2	ISO 62
	Sheet size	mm	2440x1220	
		mm	1900x1000	
	Available thicknesses	mm	4 ÷ 50	
Mechanical properties	Bending strength(perpendicular)	N/mm ²	360	ISO 178
	Modulus of elasticity(perp.)	N/mm ²	18000	ISO 178
	Compressive strength RT (perp.)	N/mm ²	500	ISO 604
	Tensile strength (parallel)	N/mm ²	280	ISO 527
	Impact strength (perpendicular)	kJ/m ²	150	ISO 179
	Delamination force RT (parallel)	N	4000	DIN 53463
Thermal properties	Thermal classification		H (180°C)	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 ⁻⁶ /K	15	
Electrical properties	Electric strength (perpendicular)	kV/mm	13	IEC 60243
	Electric strength (parallel)	kV/mm	3	IEC 60243
	Surface resistivity	Ohm	10 ¹⁰	IEC 60093
	Track resistance	CTI	CTI 150	IEC 60112
	Permittivity	----	5	IEC 60250

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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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-	-	
-	-	
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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