



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:

LMV

Description: Glass cloth and melamine resin binder laminate

According to specifications	CEI 15/10	MV	unit	average values	test method	test conditions
	CEI EN 60893	MF GC 201				
	DIN 7735	Hgw 2272				
	NEMA LI - 1	G 5				

Physical properties	Colour	translucid natural			
	Specific gravity	g/cm ³	2	ISO 1183	a
	Water absorption mm 1	mg	123	IEC 60893-2	b + d
	Thermal classification		B (130°C)	IEC 60216	-
	Self extinguishing		V0	UL 94	V0
	Thermal conductivity	W/mK	0,3	ISO 8302	-
	Expansion coefficient	10 ⁻⁶ /K	15	VDE 0304/VSM	-

Mechanical properties	Compressive strength ⊥	MPa	600	ISO 604	a
	Flexural strength ⊥	MPa	352	ISO 178	a
	Bonding strength //	N	5000	CEI	a
	Tensile stress	MPa	300	ISO 527	a
	Impact strength Charpy //	KJ/m ²	90	ISO 179	a
	Rockwell hardness	HRM	100	CEI	a

Electrical properties	Dielectric strength ⊥ 3 mm	KV/mm	11,1	ISO 60243-1	a
	Breakdown voltage	KV	24	ISO 60243-1	a
	Surface resistivity	MΩ	10 ²	ISO 60167	c
	Dielectric constant 1MHz		-	-	-
	Dissipation factor 1MHz		-	-	-
	Tracking resistance	V	600	IEC 60112	a
	Arc resistance	s	198	ASTM D495	-

The properties of the product indicated in this data sheet are based on the results of tests of typical material produced by companies affiliated to La Misolet S.r.l.. Some variations in product properties are typical. La Misolet s.r.l neither claims nor guarantees that the use of its product will have the results described in this data sheet or that the information provided is complete, accurate or useful. The user should test the product to determine its properties and its suitability for the intended use. Misolet s.r.l expressly disclaims any liability for any damage, damage, injury, cost or expense to any person arising directly or indirectly from the reliance on any information contained in this data sheet. La Misolet s.r.l does not provide any warranty in this data sheet, expressed or implied, including any implied warranty or fitness for a particular use or purpose. Misolet s.r.l shall not be liable under any circumstances for incidental, exemplary, punitive or consequential damages.

Test condition:

- a) 48h 15-35°C 45/75 % relative humidity b) 1h 105°C c) 24h 105°C d) 24h 23°C in water
e) 48h 50°C in water f) 24h 120°C in oil g) 96h 45°C 95% relative humidity

(Page 1 of 2)



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THICKNESS mm	TOLERANCE	Particular properties:
0,5	± 0,13	- Good arc resistance
0,8	± 0,20	- Good mechanical and dielectric characteristics
1,0	± 0,20	
1,5	± 0,25	
2,0	± 0,30	
2,5	± 0,30	
3,0	± 0,35	
4,0	± 0,40	
5,0	± 0,50	
6,0	± 0,60	
8,0	± 0,80	
10,0	± 0,90	
12,0	± 1,00	
16,0	± 1,10	
20,0	± 1,20	
25,0	± 1,40	
30,0	± 1,80	
35,0	± 2,00	
-	-	
-	-	
-	-	
-	-	

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.

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(Page 2 of 2)

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