



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: **LG7**

Description: Glass cloth and silicone resin binder laminate

According to specifications	CEI 15/10	SV	unit	average values	test method	test conditions
	CEI EN 60893	SI GC 202				
	DIN 7735	Hgw 2572				
	NEMA LI - 1	G7				

Physical properties	Colour	natural			
	Specific gravity	g/cm ³	1.85	ISO 1183	a
	Water absorption mm 3	mg	40	ISO 60893-2	b + d
	Thermal classification	H (180°C)		IEC 60216	-
	Self extinguishing	V0		UL 94	-
	Thermal conductivity	W/mK	0,3	ISO 8302	-
	Expansion coefficient	10 ⁻⁶ /K	12	VDE 0304/VSM	-

Mechanical properties	Compressive strength ⊥	MPa	347	ISO 604	a
	Flexural strength ⊥	MPa	150	ISO 178	a
	Bonding strength //	N	2500	CEI	a
	Tensile stress	MPa	130	ISO 527	a
	Impact strength Charpy //	KJ/m ²	62	ISO 179	a
	Rockwell hardness	HRM	80	CEI	a

Electrical properties	Dielectric strength ⊥ to lamination 3 mm	KV/mm	5	ISO 60243-1	e
	Breakdown voltage	KV	25	ISO 60243-1	e
	Surface resistivity	MΩ	10 ³	ISO 60167	d
	Dielectric constant (permittivity) at 1 MHz		6	ISO 60250	d
	Dissipation factor at 1MHz		0,07	ISO 60250	d
	Comparative tracking index	V	600	IEC 112	a
	Tracking resistance (2500V)	minutes	-	ASTM D2303	-
	Arc resistance	s	180	ASTM D495	-

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.

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



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Laminate:

LG7

THICKNESS mm	TOLERANCE	Particular properties:
0,5	± 0,13	- Excellent dielectric properties - Suitable for high thermic stress (200°C)
0,8	± 0,20	
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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