



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:

LG11

Description: Glass cloth and epoxy resin binder laminate for high temperatures

According to specifications	CEI 15/10	EV	Unit	Average values	Test method	Test conditions
	CEI EN 60893	EP GC 203				
	DIN 7735	Hgw 2372.4				
	NEMA LI - 1	G11				

Physical properties	Colour	translucid natural			
		Specific gravity	g/cm ³	1,9	ISO 1183
	Water absorption mm 3	mg	22	IEC 60893-2	b + d
	Thermal classification	°C	F (155°C)	IEC 60216	-
	Self extinguishing		-	UL 94	-
	Thermal conductivity	W/mK	0,3	ISO 8302	-
	Expansion coefficient	10 ⁻⁶ /K	15	VDE 0304/VSM	-
	Silicone resin content	%	-	IEC 371-2	-
	Mica content	%	-	IEC 371-2	-
Mechanical properties	Flexural strength ⊥	MPa	340	ISO 178	a
	Charpy impact strength //	KJ/m ²	33	ISO 179	a
	Tensile strength	MPa	300	ISO 527	a
	Compressive strength ⊥	MPa	-	ISO 604	-
	Bonding strength //	N	8000	CEI	a
	Modulus of elasticity	MPa	24000	ISO 178	a
Dielectrical properties	Insulation resistance	MΩ	5x10 ⁴	ISO 60167	d
	Dielectric strength // to lamination	KV	35	ISO 60243-1	e
	Dielectric strength ⊥ to lamination	KV/mm	14,2	ISO 60243-1	e
	Tracking resi stance	V	180	IEC 60112	a
	Arc resistance	S	-	ASTM D495	-
	Dissipation factor at 1 MHz		0,04	IEC 60250	d
	Dielectric constant (permittivity) at 1 MHz		5	IEC 60250	d

The values shown above are indicative as they represent the average values observed during our routine control tests.

The user must make sure that the product he requests is compatible with the use to which it is destined.

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:
0,3	± 0,10	- Low water absorption
0,5	± 0,12	- Good dielectric properties
0,8	± 0,16	- Excellent mechanical properties at high temperatures
1,0	± 0,18	- Applications: similar to LG10
1,5	± 0,24	
2,0	± 0,28	
2,5	± 0,33	
3,0	± 0,37	
4,0	± 0,45	
5,0	± 0,52	
6,0	± 0,60	
8,0	± 0,72	
10,0	± 0,82	
12,0	± 0,94	
15,0	± 1,02	
20,0	± 1,30	
25,0	± 1,50	
30,0	± 1,70	
35,0	± 1,95	
40,0	± 2,10	
50,0	± 2,45	
60,0	± 2,80	
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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

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