



La MISOLET

Lavorazione Materiale Isolante Elettrico e Termico

Lavorazioni CNC e tradizionali a disegno
 Minuterie tranciate
 Vendita diretta
 Lastre o pannelli a misura – Tondi – Tubi di:
 Tela Bachelizzata e Carta Bachelizzata
 Vetroresina Epossidica Nema G10 e G11,
 Siliconica Nema G7 e Melaminica Nema G5
 Vetroresina Poliestere GPO3
 Materiali Termoisolanti – Mica e Micanite
 ATTREZZERIA INTERNA

DATA SHEET

Laminate:**LG11****Description:** Glass cloth and epoxy resin binder laminate for high temperatures

According to specifications	CEI 15/10 DIN 7735 NEMA LI - 1	EV Hgw 2372.4 G11	unit	average values	test method	test conditions
Physical properties	Colour	Translucid natural				
	Specific gravity		g/cm ³	1,95	CEI	a
	Water absorption mm 3		%	0,4	CEI	b + d
	Thermal classification			F (155°C)	CEI	-
	Self extinguishing			-	UL 94	-
	Flame resistance (ignition time)		s	-	ASTM D229	-
	Flame resistance (extinction time)		s	-	ASTM D229	-
Mechanical properties	Compressive strength //		N/cm ²	20000	CEI	a
	Flexural strength \perp ⁽¹⁾		N/cm ²	30000	CEI	a
	Bonding strength //		N	8000	CEI	a
	Tensile stress		N/cm ²	25000	CEI	a
	Impact strength		Ncm/cm ²	2000	CEI	a
	Rockwell hardness		HRM	100	CEI	a
Electrical properties	Dielectric strength \perp to lamination		KV/mm	15	CEI	e
	Dielectric strength // to lamination		KV	30	CEI	e
	Surface resistivity		M Ω	10 ³	CEI	d
	Volume resistivity		M Ω /cm	10 ⁵	CEI	d
	Insulation resistance		M Ω	10 ⁵	CEI	d
	Dielectric constant 1MHz			7	CEI	d
	Dissipation factor 1MHz			0,04	CEI	d
	Comparative tracking index		V	300	IEC 112	a
	Tracking resistance (2500V)		minutes	-	ASTM D2303	-
	Arc resistance		s	-	ASTM D495	-

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.

⁽¹⁾ After a one hour treatment at 155° C the flexural value must be 50% higher than the ambient value

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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THICKNESS mm	TOLERANCE	Particular properties:
0,5	± 0,13	- Low water absorption
0,8	± 0,20	- Good dielectric properties
1,0	± 0,20	- Excellent mechanical properties at high temperatures
1,5	± 0,25	- Applications: similar to LG10
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	
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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