



# 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:

**LBNN**

**Description:** Paper base laminate with phenolic resin binder suitable for hot punching up to and including 3 mm

According to specifications	CEI 15/10 DIN 7735 NEMA LI - 1	TR Hp 2061 XP	unit	average values	test method	test conditions
<b>Physical properties</b>	Colour			black		
	Specific gravity		g/cm <sup>3</sup>	1,4	CEI	a
	Water absorption mm 1		%	10	CEI	b + d
	Thermal classification			E (120°C)	CEI	-
	Self extinguishing			-	UL 94	-
	Flame resistance (ignition time)		s	-	ASTM D229	-
	Flame resistance (extinction time)		s	-	ASTM D229	-
<b>Mechanical properties</b>	Compressive strength //		N/cm <sup>2</sup>	n/a	-	-
	Flexural strength ⊥		N/cm <sup>2</sup>	12000	CEI	a
	Bonding strength //		N	n/a	-	-
	Tensile stress		N/cm <sup>2</sup>	13000	CEI	a
	Impact strength		Ncm/cm <sup>2</sup>	n/a	-	-
	Rockwell hardness		HRM	n/a	-	-
<b>Electrical properties</b>	Dielectric strength ⊥ to lamination		KV/mm	-	-	-
	Dielectric strength // to lamination		KV	10	CEI	a
	Surface resistivity		MΩ	10 <sup>5</sup>	CEI	c
	Volume resistivity		MΩ/cm	10 <sup>5</sup>	CEI	c
	Insulation resistance		MΩ	10 <sup>4</sup>	CEI	c
	Dielectric constant 1MHz			-	-	-
	Dissipation factor 1MHz			-	-	-
	Comparative tracking index		V	-	IEC 112	-
	Traking 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.

#### 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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