



# 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:****LCEM1**

**Description:** Laminate with continuous-filament glass cloth surfaces and a cellulose core, all with a flame-resistant epoxy resin binder

According to specifications	CEI 15/10 DIN 7735 NEMA LI - 1	- - CEM-1	unit	average values	test method	test conditions
<b>Physical properties</b>	Colour			white		
	Specific gravity		g/cm <sup>3</sup>	1,54	CEI	a
	Water absorption mm 3		%	0,25	CEI	b + d
	Thermal classification			B130	CEI	-
	Self extinguishing			V0	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>	-	CEI	-
	Flexural strength ⊥		N/cm <sup>2</sup>	30000	CEI	a
	Bonding strength //		N	-	CEI	-
	Tensile stress		N/cm <sup>2</sup>	13000	CEI	a
	Impact strength		Ncm/cm <sup>2</sup>	-	CEI	-
	Rockwell hardness		HRM	-	CEI	-
<b>Electrical properties</b>	Dielectric strength ⊥ to lamination		KV/mm	9	CEI	f
	Dielectric strength // to lamination		KV	60	CEI	f
	Surface resistivity		MΩ	10 <sup>4</sup>	CEI	g
	Volume resistivity		MΩ/cm	10 <sup>6</sup>	CEI	g
	Insulation resistance		MΩ	-	CEI	-
	Dielectric constant 1MHz			4	-	-
	Dissipation factor 1MHz			0,03	-	-
	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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