



# 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

Material :

**LMR1**

Description: **Sheet of Mica Continua Muscovite**

Sheet measure	1200x1000 mm
Thicknesses	Up to 80 mm
Tolerances for thicknesses from mm 0,2 to 0,4	+/-0,05
Tolerances for thicknesses from mm 0,5 to 0,6	+/-0,07
Tolerances for thicknesses from mm 0,7 to 0,8	+/-0,08
Tolerances for thicknesses from mm 1 to 5	±10%
Tolerances for thicknesses from mm 5 to 30	± 7%
Tolerances for thicknesses from mm 30 to 80	± 5%

### Mechanical properties

		Norm	Unit	Medium values
Density		IEC371-2	g / cm <sup>3</sup>	2,20
Compressive Strength	at 20°C	ISO 604	Mpa	550
	at 200°C		Mpa	250
Tensile Strength		ISO 527	Mpa	100
Flexure Strength		ISO 178	Mpa	190

### Dielectric properties

		Norm	Unit	Medium values
Dielectric Strength	At 20°C	IEC 243	kV/mm	25
	At 400°C/1 hour, test at 20°C A		kV/mm	13
	600°C/1 hour, test at 20°C		kV/mm	10
Tensile Strength		IEC 112	V	500
Relative dielectric constant	20°C	IEC 250		6,5
	400°C	IEC 250		7
Bending strength		ASTM D495 VDE 0303	sec. L3	≥420 2.2.1.0

### Other properties

		Unit	Medium values
Heat resistance	In continue	°C	500
	with peak	°C	700
Resistance at thermal shocks	Until thickness 6 mm	°C	500
	Thickness superior to 6 mm	°C	400
Thermal conductivity perpendicular to the sheet		W/m·K	0,3
	Along the level of the sheet	W/m·K	3
Thermal expansion	Perpendicular to the sheet	10 <sup>-6</sup> /K	100
	Along the level of the sheet	10 <sup>-6</sup> /K	10

### Fire resistance and low smoke classification

Characteristic	Norm	Class
Fire resistance classification	UL 94	94 V0
Toxic smoke classification	CEI 2037/85	Index 0,16

Material certified following the norm EN45545-2 : 2015

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.**

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**La MISOLET S.r.l.**

Tel.: +39-0377/43.71.25 (4 Linee R.A.) - Fax +39-0377/31.94.76

Uffici e Produzione: SP142, 4c - 26867 Somaglia (LO) - Italy

C.F. e P. IVA 06943440153

Internet: [www.misolet.it](http://www.misolet.it) - E-mail: [info@misolet.it](mailto:info@misolet.it)

Sede Legale: Via Verbano, 8 - 20139 Milano



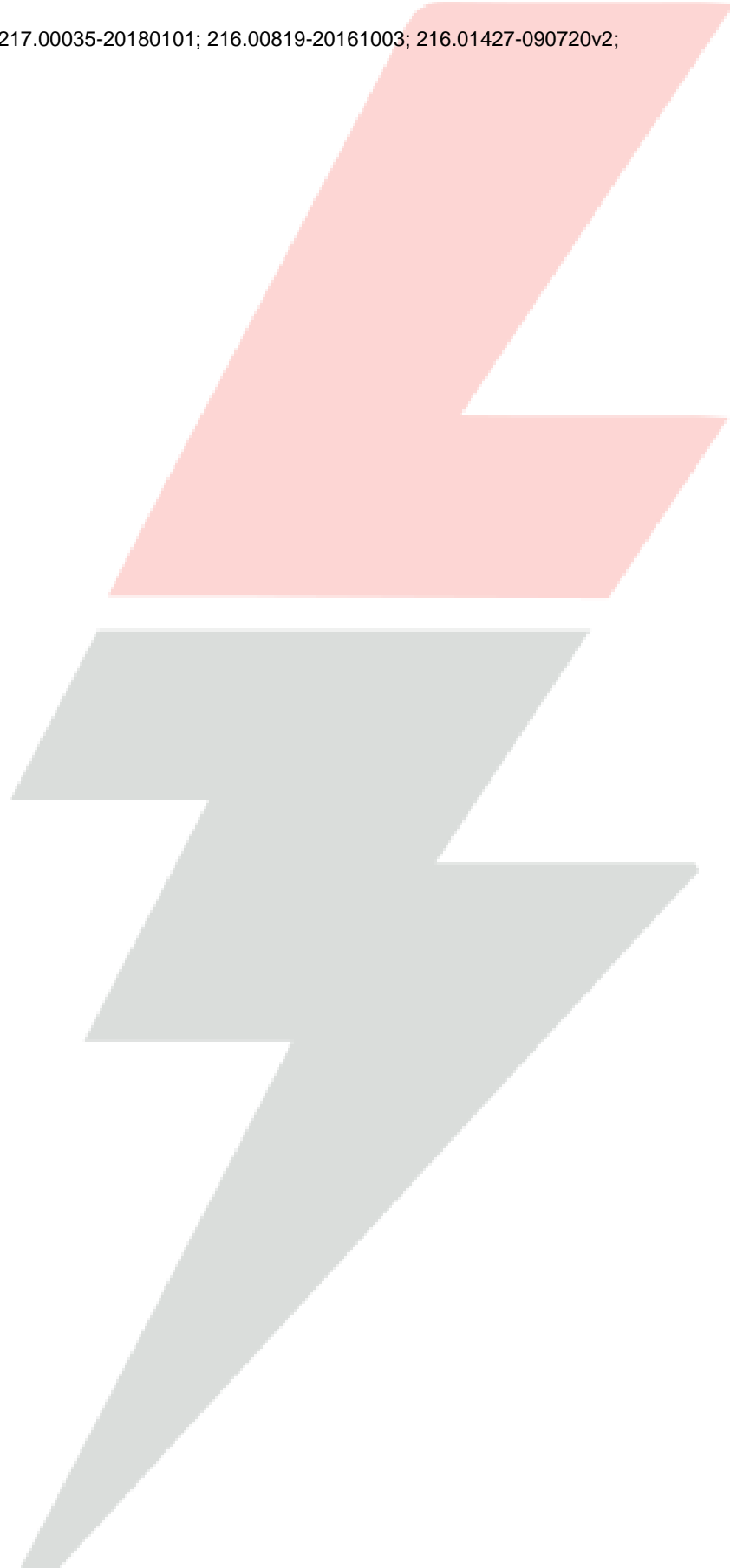
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