



### DATA SHEET

Material :

**LMPHL**

Description: **Sheet of Mica Continua Phlogopite**

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	ISO 604	at 20°C	Mpa
		at 200°C	Mpa
Tensile Strength	ISO 527	Mpa	100
Flexure Strength	ISO 178	Mpa	210
Dielectric properties			
	Norm	Unit	Medium values
Dielectric Strength	IEC 243	At 20°C	kV/mm
		At 400°C/1 hour, test at 20°C	kV/mm
		A 600°C/1 hour, test at 20°C	kV/mm
Tensile Strength	IEC 112	V	525
Relative dielectric constant	IEC 250	20°C	6,5
		400°C	7
Bending strength	ASTM D495 VDE 0303	sec. L3	≥420 2.2.1.0
Other properties			
		Unit	Medium values
Heat resistance	In continue with peak	°C	700
		°C	1000
Resistance at thermal shocks	Until thickness 6 mm Thickness superior to 6 mm	°C	400
		°C	200
Thermal conductivity perpendicular to the sheet	Along the level of the sheet	W/m <sup>2</sup> · K	0,3
		W/m <sup>2</sup> · K	3
Thermal expansion	Perpendicular to the sheet Along the level of the sheet	10 <sup>-6</sup> /K	100
		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	

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.** Misolet s.r.l expressly disclaims all liability for any damage, injury and costs to persons and/or property, arising directly or indirectly from the use of the product that has not been preceded by tests with respect to the conditions of use to which the same will be intended. The data contained in this data sheet does not constitute a guarantee of any kind, express or implied, including any suitability for a particular use or purpose.

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