



# 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 and Micanite

TOOLING, BLANKING AND DIEMAKING

### DATA SHEET

Laminate:

**LBN2**

**Description:** Paper base laminate with phenolic resin binder

**According to specifications**

CEI 15/10

CEI EN 60893

DIN 7735

NEMA LI - 1

N

PF CP 201

Hp 2061

X

**Unit**

**Average values**

**Test method**

**Test conditions**

**Physical properties**

Colour

natural or black

Specific gravity

g/cm<sup>3</sup>

1,38

ISO 1183

a

Water absorption mm 4

mg

600

IEC 60893-2

b + d

Thermal classification

°C

E (120°C)

IEC 60216

-

Self extinguishing

HB

UL 94

-

Thermal conductivity

W/mK

0,25

ISO 8302

-

Expansion coefficient

10<sup>-6</sup>/K

20

VDE 0304/VSM

-

Silicone resin content

%

-

IEC 371-2

-

Mica content

%

-

IEC 371-2

-

**Mechanical properties**

Flexural strength ⊥

MPa

135

ISO 178

a

Charpy impact strength

KJ/m<sup>2</sup>

-

ISO 179

-

Tensile strength

MPa

-

ISO 527

-

Compressive strength ⊥

MPa

-

ISO 604

-

Bonding strength //

N

-

CEI

-

Modulus of elasticity

MPa

8000

ISO 178

a

**Dielectrical properties**

Insulation resistance

MΩ

-

ISO 60167

-

Dielectric strength // to lamination

KV

30

ISO 60243-1

a

Dielectric strength ⊥ to lamination

KV/mm

1

ISO 60243-1

a

Tracking resi stance

V

-

IEC 60112

-

Arc resistance

S

-

ASTM D495

-

Dissipation factor at 1 MHz

-

IEC 60250

-

Dielectric constant (permittivity) at 1 MHz

-

IEC 60250

-

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.

Reference : 216.08623-R00-161021 – 217.00798-R00-160908

**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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