



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:

LTBF

Description: Cotton fabric (24x24 ±2) and phenolic resin laminate

According to specifications

CEI 15/10

CEI EN 60893

DIN 7735

NEMA LI - 1

F

PF CC 201

Hgw 2082

C

Unit

Average values

Test method

Test conditions

Physical properties

Colour

brown

Specific gravity

g/cm³

1,35

ISO 1183

a

Water absorption mm 3

mg

249

IEC 60893-2

b + d

Thermal classification

°C

E (120°C)

IEC 60216

-

Self extinguishing

HB

UL 94

-

Thermal conductivity

W/mK

0,2

ISO 8302

-

Expansion coefficient

10⁻⁶/K

18

VDE 0304/VSM

-

Silicone resin content

%

-

IEC 371-2

-

Mica content

%

-

IEC 371-2

-

Mechanical properties

Flexural strength ⊥

MPa

100

ISO 178

a

Charpy impact strength

KJ/m²

9,7

ISO 179

a

Tensile strength

MPa

83

ISO 527

a

Compressive strength ⊥

MPa

160

ISO 604

a

Bonding strength //

N

7000

CEI

a

Modulus of elasticity

MPa

7000

ISO 178

a

Dielectrical properties

Insulation resistance

MΩ

1

ISO 60167

d

Dielectric strength // to lamination

KV

2

ISO 60243-1

a

Dielectric strength ⊥ to lamination

KV/mm

0,6

ISO 60243-1

a

Tracking resistance

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.

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

(Page 1 of 2)

La MISOLET S.r.l. - Capitale sociale € 50.000,00 int.vers.

Phone: +39-0377/43.71.25 (4 Lines) - Fax +39-0377/31.94.76

Works and offices: Via Pertini, 22/24 - 26845 Codogno (LO) - Italy

VAT IT06943440153

Internet: www.misolet.it - E-mail: info@misolet.it

Legal seat: Via Verbano, 8 - 20139 Milano - Italy

Laminate:

LT**B**F

La MISOLET



| THICKNESS mm | TOLERANCE | Particular properties: |
|--------------|-----------|--|
| 0,5 | ± 0,13 | - Suitable for small gears and other fine machining applications - Suitable for low tension electric applications |
| 0,8 | ± 0,15 | |
| 1,0 | ± 0,16 | |
| 1,2 | ± 0,17 | |
| 1,5 | ± 0,19 | |
| 2,0 | ± 0,21 | |
| 2,5 | ± 0,24 | |
| 3,0 | ± 0,26 | |
| 4,0 | ± 0,32 | |
| 5,0 | ± 0,36 | |
| 6,0 | ± 0,40 | |
| 8,0 | ± 0,49 | |
| 10,0 | ± 0,56 | |
| 12,0 | ± 0,64 | |
| 15,0 | ± 0,76 | |
| 18,0 | ± 0,80 | |
| 20,0 | ± 0,87 | |
| 25,0 | ± 1,02 | |
| 30,0 | ± 1,12 | |
| 35,0 | ± 1,24 | |
| 40,0 | ± 1,35 | |
| 45,0 | ± 1,45 | |
| 50,0 | ± 1,55 | |
| 60,0 | ± 1,75 | |
| 80,0 | ± 2,15 | |
| 90,0 | ± 2,35 | |

TO BE KEPT in dry stores, in a horizontal position

CAUTION: this material is photosensitive, light can gradually change the shade of colour.

We are available to effect cutting to measurement as well as machining to drawing of parts by CNC

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