

EPOXY RESIN HIGH TEMPERATURE INSULATORS

Epoxy resin High Temperature insulators

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|------------------------------------|----------------------------|-----------------------|
| Raw material | | |
| Tensile strength | 65 N/mm ² | ISO R 527 |
| Flexural strength | 130 N/mm ² | ISO R 178 |
| E-modulus | 12000 N/mm ² | ISO 178 |
| Impact strength | 10 kJ/m ² | ISO 179 |
| Notch impact strength | 3 kJ/m ² | ISO 179 |
| Volume resistivity | (10) ¹⁵ Ohm*cm | IEC 60093 |
| Surface resistivity | (10) ¹⁵ Ohm | IEC 60093 |
| Temperature time limit RTI | | |
| 2.000 h | 200°C | IEC 216 |
| 20.000 h | 180°C | IEC 216 |
| 100.000 h | 168°C | UL 746 B |
| Glass percentage | 10 % | C-Norm |
| Class of flammability | V0 | UL 94 |
| Water absorption (100°C/30min) | 0,06% | ISO 62 |
| Coeff. of linear thermal expansion | 25 1/(K*10 ⁻⁶) | DIN 53752 (20 - 80°C) |
| Thermal conductivity (25°C) | 0,70 W/m*K | DIN 52612 |
| Tracking resistance | CTI >600 | IEC 60112 |
| Dielectric strength | 22 kV/mm | IEC 60243 - 1 |
| Density | 1.9 g/cm ³ | DIN 53479 |
| Color | black | RAL 9004 |



The European Union directive 2002/95/EC concerning the restriction of certain Hazardous Substances (RoHS) allows copper alloys such as brass to contain up to 4% lead. The brass inserts in the insulators referenced are manufactured containing less than 4% lead and therefore meets the European Union "RoHS" directive.

Epoxy insulator for high temperatures.
Isolateurs époxy pour hautes températures
Epoxy isolatoren voor hoge temperaturen

High temperature epoxy insulators are suitable to be used for extreme conditions :
For high mechanical stresses
For high vibrations
For high temperatures up to +200°C
For heavy pollution (increased creepage)

Isolateurs epoxy haute températures, idéale pour des applications extremes :
Grandes résistances mécanique
Résistances aux vibrations
Pour de haute tempéartures +200°C
Pour des zones pollués (ligne de fuite accrue.)

Hoge tempertuur epoxy isolatoren, aanbevolen voor extreme toepassingen :
Grote mechanische weerstand
Bestand tegen vibraties
Voor hoge temperaturen tot +200°C
Voor vervuilde omgevingen (grote kruipafstand)



| | |
|--|---|
| Operating temperature Températures fonctionnel Gebruikstemperatuur | min. -40°C max. +180°C - 20.000 h - IEC 216 peak +200°C - 2.000 h - IEC 216 |
| Coparative tracking Index (CTI) acc to IEC 60112 | 600 V |
| Fire/smoke behaviour Comportement au feu | |
| UL 94 | VO |
| NF F 16-101 & 16-102 | F1-I2 grid 4 Pas d'inflammation à 850°C (no ignition at 850°C) |

| | |
|-----|---|
| (1) | Rated insulation Voltage Ui in function of Pollution degree and Overvoltage (Check IEC 60077-1) Tension assignées d'isolement Ui en fonction des degrés de pollution et des surtensions (voir IEC 60077-1) |
| (2) | Rated Power Frequency Withstand Voltage, dry (50 Hz, 1 min) Tension de tenue assignée à fréquence industrielle, à sec (50 Hz, 1 min) Toegekende overspanning bij industriële frekwentie, droog (50 Hz, 1 min) |
| H | Height Hauteur Hoogte |
| Cr | Creepage Ligne de fuite Kruipweg |
| ML | Maximum load according to test condition required by EN 61373 |
| N1 | Flexural strength |
| N2 | Torsion rupture torque |
| N3 | Maximum tensile strength |
| N4 | Compressive |
| TT | Max tightening torque on threads |

Inserts standard : Nickel electroplated brass
Other option : Zinceletrated steel

| Ref. | 1 kV | 2 kV | H mm | Ø mm | Cr. mm | ML N | N1 N | N2 Nm | N3 N | N4 N | TT Nm | Weight gr |
|----------|---------|---------|---------|---------|-----------|---------|---------|----------|---------|---------|----------|--------------|
| BE35-M8 | | 16 | 35 | 50 | 85 | 300 | 3600 | 40 Nm | 7000 | 40000 | 18 | 110 |
| BE35-M10 | 39 | | | | | | | | | | | |
| BE40-M8 | | 12 | 40 | 52 | 110 | 300 | 4000 | ≥ 80 | 10000 | - | 18 | 140 |
| BE40-M10 | 32 | | | | | | | | | | | |
| BE40-M12 | 55 | | | | | | | | | | | |
| BE50-M8 | | 14 | 50 | 52 | 120 | 350 | 5000 | ≥ 80 | 11000 | 70000 | 18 | 170 |
| BE50-M10 | 32 | | | | | | | | | | | |
| BE50-M12 | 55 | | | | | | | | | | | |
| BE60-M10 | | 20 | 60 | 56 | 130 | 550 | 7000 | ≥ 140 | 18000 | - | 32 | 320 |
| BE60-M12 | 55 | | | | | | | | | | | |
| BE60-M14 | 90 | | | | | | | | | | | |
| BE60-M14 | 125 | | | | | | | | | | | |