ELEKTRO-ISOLA

G-Etronax EP 203 - Sheet

| Components: Colour*: Serial no.: Version no.: | Glass fabric - Epoxy Yellow/green 363 V1.0-17/06/15 | | Closest relevant s IEC 60893: DIN 7735: NEMA LI 1: | standards EP GC 203 Hgw 2372.4 G-11 | | |
|--|--|---------------|---|--|---------|----|
| Mechanical properties | | Test method | Thickness | Value | Unit | |
| Bending strength at RT | | ISO 178 | ≥ 1,5 mm | 450 | MPa | *1 |
| Bending strength at a hi | gh temperature | ISO 178 | ≥ 1,5 mm | 280 | MPa | *В |
| Modulus of elasticity | | ISO 178 | ≥ 1,5 mm | 22000 | MPa | *1 |
| Compressive strength | | ISO 604 | ≥5 mm | 550 | MPa | *1 |
| Izod impact strength, parallel with layers | | ISO 180/2A | ≥5mm | 65 | Kj/m² | *1 |
| Shearing strength, parallel | | ISO 60893-2 | ≥5mm | 50 | MPa | *1 |
| Tensile strength | | ISO 527 | ≥ 1,6 mm | 320 | MPa | *1 |
| Electrical properties | | Test method | Thickness | Value | Unit | |
| Electrical strength in oil | at 90°C, perpendicular | IEC 60243-1 | 3 mm | 16 | kV/mm | *2 |
| Electrical strength in oil | at 90°C, parallel | IEC 60243-1 | ≥ 3 mm | 60 | kV/25mm | *2 |
| Permitivity 50 MHz | | IEC 62631-2-1 | ≤ 3 mm | 4.5 | | *3 |
| Permitivity 1 MHz | | IEC 62631-2-1 | ≤ 3 mm | 4.5 | | *3 |
| Dissipation factor 50 M | łz | IEC 62631-2-1 | ≤ 3 mm | 0.008 | | *3 |
| Dissipation factor 1 MHz | Z | IEC 62631-2-1 | ≤3mm | 0.01 | | *3 |
| Insulation resistance af | ter submersion in water | IEC 62631-3-3 | AI | 500000 | MΩ | *4 |
| Comparative tracking in | dex | IEC 60112 | ≥3mm | 200 | CTI | *1 |

| Conditioning | | | Notes | | | |
|--------------|---|---|------------------------------|--|--|--|
| 1 | 24h/23°C/50%RH | А | 1h/130°C / measured at 130°C | | | |
| 2 | 24h/23°C/50%RH + 1h/ in oil at 90°C | В | 1h/150°C / measured at 150°C | | | |
| 3 | 96h/105°C + 1h/23°C/20%RH | С | Halogen free | | | |
| 4 | 24h/50°C/<20% RH + 24h in water at 23°C | D | 1h/180°C / measured at 180°C | | | |
| 5 | 96h/105°C + 1h/ in oil at 90°C | Е | 1h/200°C / measured at 200°C | | | |
| | | | | | | |

The above values are average values resulting from extensive tests in our laboratories. ELEKTRO-ISOLAA'S disclaims any and all liability for the performance of our materials in applications outside our control. Elektro-Isola A'S reserves the right to modify the above data without notice or further information. Furthermore, we refer to our general disclaimer.

* Note that color and surface are indicative. As this is a technical product, colour and expression may vary according to dimensions, batches and machining. If you want further information or have special decorative needs, please feel free to contact us.

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|--|--|-------------------------------|--|--|-------|---|
| Physical and thermal properties | | Test method | Thickness | Value | Unit | |
| Temperature index 20,000 h (T.I.) | | IEC 60216 | ≥ 3 mm | 160 | °C | - |
| Fire class | | IEC 60695-11-10 | - | - | - | - |
| Density | | ISO 1183-A | AI | 1.85 | g/cm³ | - |
| Water absorption | | ISO 62-1 | 50x50x3 mm | 15 | mg | - |
| Smoke emission & toxicity | | EN 45545-2; R22, R23 & R24 | - | - | - | - |
| Oxygen Index (OI) | | EN ISO 4589-2 | - | | | |
| Smoke density (Ds max) | | EN ISO 5659-2 | - | - | - | - |
| Smoke density (Ds max) | | EN ISO 5659-2 | - | - | - | - |
| Toxicity (CIT _{NLP}) | | NF X 70-100-1/-2 | - | - | - | - |
| $\text{Toxicity}\left(\text{CIT}_{G,8\text{min}}\right)$ | | EN 17084 | - | | | |

Characteristics and applications

Good and durable strength properties at high temperatures. Very good electrical properties, even at high humidity. Used in mechanical, electrical and electronic applications. Can be used at cryogenic temperatures.

| Condi | tioning | Notes | |
|-------|---|-------|------------------------------|
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