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Datasheet AIEPPC301



AE IP PC 301 is characterized for being strong and tough. It is also the lowest in welling in water and has an incredibly low water absorption. AEIPPC301 is high chemical resistance, e.g., to SF6 gas. When there is SF6 gas used as an insulation medium AEIPPC301 is suitable for high/voltage circuit breakers.

Application

Material

Epoxy-laminated polyester fibre cloth, SF6-resistant.

Availablity

| | Value | Unit |
|-----------------|----------------|------|
| Sheet thickness | 2,0-150 | mm |
| Sheet size | 1250x1250/2500 | mm |



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AIEPPC301 - Specifications

Physical properties

| | Test standard | Value | Unit |
|---------------------------|---------------|------------|-------|
| Density | ISO 1183-A | 1,35 | g/cm³ |
| Water absorption at 23 °C | ISO 62-1 | 20 | mg |
| Flammability | | on request | |

Mechanical properties

| | Test standard | Value | Unit |
|---|---------------|------------|-------|
| Compressive strength static | | on request | |
| Module of elasticity - Youngs modulus | ISO 178 | 4500 | МРа |
| Tensile strength | ISO 527 | 135 | МРа |
| Shear strength | | on request | |
| Impact strength | | on request | |
| Bending strenght | ISO 178 | 150 | MPa |
| Flexural strength | | on request | |
| Insulation resistance | | on request | |
| Elastic modulus from bending test | | on request | |
| Compressive strenth perpendicular | | on request | |
| lzod impact strength, parallel with layers | ISO 180/2A | 50 | kJ/m² |
| Shear strength parallel | ISO 60893-2 | 35 | MPa |

Thermal properties

| | Test standard | Value | Unit |
|----------------------------------|---------------|-------|------|
| Thermal endurance 20,000 h (T.I) | IEC 60216 | 130 | °C |

Friction properties

| Test standard | Value | Unit |
|---------------|-------|------|
| Test standard | value | onic |

Electrical properties

| | Test standard | Value | Unit |
|---|---------------|------------|------|
| Dielectric strength perpendic thickness 3 mm | | on request | |
| Resistance to tracking (CTI) | IEC 60112 | 200 | СТІ |
| Permittivity 50Hz | IEC 60250 | 4 | [-] |
| Permittivity 1MHz | IEC 60250 | 0 | [-] |
| Dissipation factor 50Hz | IEC 60250 | 0,01 | [-] |
| Dissipation factor 1 MHz | IEC 60250 | 0 | [-] |
| Insulation resistance after submersion in water | IEC 60167 | 10 | ΜΩ |

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