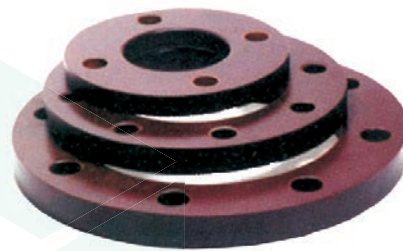
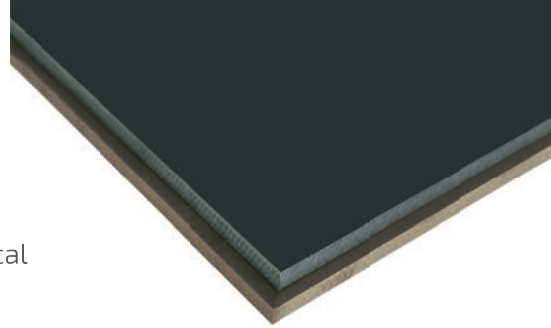




COMPOSITES ●●

BAQUÉLITE

KRAFT paper and phenolic resin-based thermolamine stratified. It has high mechanical properties and ease of machining and cutting. Its electrical properties make it suitable for medium and low voltage insulation.



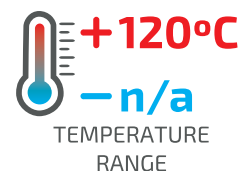
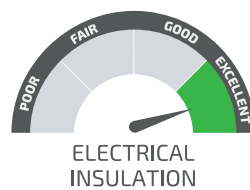
MAIN CHARACTERISTICS

- ◆ Medium dielectric properties
- ◆ Excellent electrical insulation
- ◆ Good mechanical properties at normal electrical voltages

APPLICATIONS

- ◆ Electrical insulation
- ◆ Drilled parts
- ◆ Drilling models
- ◆ Assembly parts

POLY LANEMA





| PROPERTIES | TEST METHODS | UNITS | BAQUELITE |
|--|--------------|-------------------|-----------|
| DENSITY | ISO 1183 | g/cm ³ | 1.39 |
| WATER ABSORPTION | | | |
| AFTER 24H IMMERSION IN WATER OF 23°C | ISO 62 | mg | 100 |
| | | % | 0.9 |
| THERMAL PROPERTIES | | | |
| TEMPERATURE INDEX (TI) | IEC 60216 | °C | 120 |
| THERMAL CONDUCTIVITY | DIN 52612 | W/m.K | 0.2 |
| COEFFICIENT OF LINEAR THERMAL EXPANSION | VDE 0304 | 1.0E-6/K | 20 |
| MAXIMUM ALLOWABLE SERVICE TEMPERATURE | | | |
| FOR SHORT PERIODS | - | °C | - |
| CONTINUOUSLY | - | °C | - |
| MECHANICAL PROPERTIES AT 23°C^a | | | |
| FLEXURAL STRENGTH | ISO 178 | MPa | 150 |
| FLEXURAL RESISTANCE AT 150°C/1H | ISO 178 | MPa | - |
| MODULUS OF ELASTICITY | ISO 178 | MPa | 8000 |
| CHARPY IMPACT RESISTANCE - NOTCHED | ISO 179 | KJ/m ² | - |
| RESISTANCE TO FLAT COMPRESSION | ISO 604 | MPa | - |
| FLAT COMPRESSIVE FORCE AT 23°C | ISO 604 | MPa | - |
| FLAT COMPRESSIVE FORCE AT 200°C | ISO 604 | MPa | - |
| TENSILE STRENGTH | ISO 527 | MPa | - |
| CUTTING VOLTAGE | IEC 60893 | MPa | - |
| ELECTRICAL PROPERTIES AT 23°C | | | |
| INSULATION RESISTANCE AFTER IMMERSION IN WATER | IEC 60167 | Ω | 1.00E+7 |
| VOLTAGE FALL AT 90°C IN OIL | IEC 60243-1 | kV | - |
| FLAT ELECTRIC FORCE | IEC 60243-1 | kV/mm | - |
| RELATIVE PERMITTIVITY AT 1MHz | IEC 60250 | - | - |
| DISSIPATION FACTOR AT 1MHz | IEC 60250 | - | - |
| COMPARATIVE TRACKING INDEX (CTI) | IEC 60112 | V | - |
| TRANSVERSE DIELECTRIC RIGIDITY AT OIL | IEC 60243-1 | kV/mm | - |

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