

Datasheet

Rigid Mica sheet

RS Stock number 785-0815



Description

Mica is a laminate designed for providing outstanding electrical insulation at high temperatures. It is environmentally safe and non-toxic, certified by UL-94V-0 (E67143M) and conforming to IEC 371-3-3

Applications

A special low smoke and blister free grade. It fully resists the extreme high temperature cycles and can be easily cut or punched.

Availability

Various sheet sizes, 0.1 – 1.5mm thick

Storage

Unlimited shelf life in a dry place at room temperature

Characteristics

| Type | | Mica | |
|-----------------------------|-----------------------------------|-------------------|-----------|
| Mica content | % | ca.90 | IEC 371-2 |
| Bond content | % | ca.90 | IEC371-2 |
| Thickness | mm | 0.1-1.5 | IEC 371-2 |
| Density | | 2.15 ± 0.15 | IEC371-2 |
| Heat Resistance | | | |
| Continuous service | °C | 500 | |
| Intermittent service | °C | 800 | |
| Edge Strength | Kg/0.1 mm | >1.3 | in house |
| Tensile Strength | N.mm ⁻² | 150 | ISO 527 |
| Flexural Strength | N.mm ⁻² | >180 | ISO178 |
| Water absorption | % | <1 | IS 62 |
| Dielectric Strength | KV/mm | >25 | IEC243 |
| Insulation Resistance 23°C | Ω.cm | >10 ¹⁷ | IEC 93 |
| Insulation resistance 550°C | Ω.cm | >10 ¹² | IEC 93 |
| Heat Loss at 500°C | % | <1 | IEC 371-2 |
| Thermal Expansion | | | |
| Perpendicular to Layer | 10 ⁻⁶ .K ⁻¹ | 100 | |
| l parallel to Layer | 10 ⁻⁶ .K ⁻¹ | 10 | |