

Technical Data Sheet

Product Description

Thermal Insulating Sheet



Material Properties

- High thermal conductivity, low resistance
- Electrical insulation
- High pressure resistance
- High tensile strength

Also Available:

- Cut per drawing and custom shapes
- Optional adhesive

Applications

- ✓ Automotive electronics
- ✓ Adapter
- ✓ Communication equipment
- ✓ Motor Controller
- ✓ High pressure interface
- ✓ Semiconductor Optoelectronic Products



EVSC1000FG

| | | | | | |
|--|------|---------------------------|------|---------------|------|
| Color | | White | | Visual | |
| Composition | | Fiber glass | | * * * | |
| Thickness (mm) | | 0.2-0.5mm | | ASTM D751 | |
| Hardness (Shore A) | | 90 | | ASTM D2240 | |
| Pressure (Psi) | 10 | 25 | 50 | 100 | 200 |
| (°C*in ² /W) | 0.59 | 0.44 | 0.34 | 0.29 | 0.24 |
| Applicable temp ^o F/ °C | | -50 to 200 ^o C | | * * * | |
| Electrical | | | | | |
| Dielectric Breakdown Voltage@AC | | >4000V | | ASTM D149 | |
| Dielectric constant (1MHz) | | 3.0~3.5 | | ASTM D150 | |
| Volume resistivity (Ω.cm) | | 10 ¹¹ | | ASTM D257 | |
| Fire rating | | V0 | | UL 94 | |
| Thermal conductive | | | | | |
| Thermal conductivity(W/m.k) | | 3.5 | | ASTM D5470 | |
| RoHS | | PASS | | IEC 62321 | |
| Halogen | | PASS | | EN14582 | |
| REACH | | PASS | | EN14372 | |
| Standard Sheet Size <i>(Note: Other sheet sizes may be available upon request.)</i> | | | | 305mm x 305mm | |

Test fixtures using ASTM D5470. Recorded values include interface thermal resistance. These values are for reference only. The actual application performance is directly related to the applied surface roughness, flatness and pressure.

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Note: The information provided herein is accurate at time of publication. It is the responsibility of the end-user to confirm compliance to their application. All test data is typical. Therefore, these recommendations and data are for reference only and not as a product warranty.