

Features and Benefits

- Smooth and compliant surface
- Electrically isolating
- RoHS compliant
- Sheet form, roll form and die-cut options

Typical Applications

- Power supplies
- Automotive electronics
- Motor controls
- Power semiconductors

Optional Configurations

- Can be die-cut into specific dimensions

The OI-1000 is a series of thermally conductive material with electrical isolation property. It is especially suitable for applications where low mounting pressures for component clamping is required e.g. low component clamping forces for discrete semiconductors mounted with spring clips for a speedy assembling process.

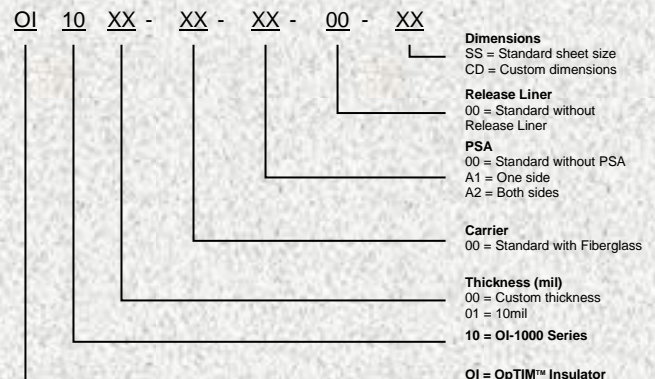
The smooth and compliant surface characteristics of OI-1000 materials can minimize interfacial thermal resistance and maximize thermal performance for such applications. OI-1000 is ROHS compliant, offering extra reassurance in applications where hazardous substances are forbidden.

Properties	OI-1000 Series	Test Method
Construction & Composition	Reinforced ceramic-filled silicone elastomer	—
Color	Grey, Green, Yellow	—
Thickness	0.01~0.018" (0.254~0.457)	—
Specific gravity (g/cm ³)	> 1.6	ASTM D297
Hardness (Shore A)	70 ± 5	ASTM D2240
Tensile Strength (kgf/cm ²)	> 180	ASTM D412
Dielectric Strength (kV/mm)	> 6	ASTM D149
Thermal Conductivity (W/m-K)	1.2	ASTM D5470 (modified)
Breakdown Voltage /kV	>6.5kV (Thickness ≥0.25mm) >14.5kV (Thickness ≥0.50mm)	ASTM D149
Volume Resistivity /ohm.cm	6.2 x 10 ¹⁴	ASTM D257
Temperature Range (°C)	-40~240	—
Flammability Rating	Compliant with UL standards	—

Please contact us for other special requirements

Carrier Treatment	Criteria
Fiber Glass (FG)	Compulsory for all thickness
Rubberized Cloth (RC)	Not Recommended
Pressure Sensitive Adhesive (PSA)	Optional to all thickness
Detachable Adhesive (DA)	Not Recommended
Aluminum Foil (AL)	Not Recommended
Kapton (PI)	Not Recommended
Talc treatment (DAT)	Not Recommended

Product Code and Descriptions



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