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COOL-PAD
CPR8853

Electrically Conductive
Non-curing
Compressible Pad
Flexible From -60 to 150°C

IDEAL FOR:

Electrical and Thermal Grease Replacement
Gap Filling

DESCRIPTION:

CPR8853 is an metal filled, electrically conductive, thermal interface material for gap filling applicaton. It is slightly tacky and designed to have high compressibility and enhance thermal transfer from power device to heat-sink. The high compressibility is also coupled with a special melt-bonding characteristics @ 110°C that allow intimate thermal and electrical contact.

The high compressibility coupled with outstanding electrical conductive provide excellent EMI shielding when used as gasketing interface. **UL94V-0**
 Rating

AVAILABILITY:

CPR8853 is available in sheet sizes, reel, and as custom preforms. Standard thickness is 0.010", 0.020" and 0.040". Special thicknesses are available.

APPLICATION PROCEDURES:

- (1) Cut or pre-cut to desired size and shape.
- (2) Place COOL-PAD between device and heatspreader or heat-sink.
- (3) Clamp with >5 psi for optimum conformance.

TYPICAL PROPERTIES*

| | |
|---|--|
| Electrical Resistivity (150°C/60 minutes) | <5x10 ⁻³ ohm-cm |
| Dielectric Strength (Volts/mil) | N/A |
| Glass Transition Temp.(°C) | -60 |
| Lap-Shear Strength | Not Applicable |
| Device Push-off Strength | Not Applicable |
| Hardness (Type) | <50 (A) |
| Cured Density (gm/cc) | 3.5 |
| Thermal Conductivity | >66 Btu-in/hr-ft ² -°F >9.4 W/m-°C |
| Linear Thermal Expansion Coeff. (ppm/°C) | 100 |
| Maximum Continuous Operation Temp. (°C) | >150 |

* Properties given are typical values and not intended for use in preparing specifications. The user is advised to evaluate the product in the manner the product is intended to be used in manufacturing and in the final product.

Usage Conditions

| Temperature | Time | Pressure |
|-------------|-------|----------|
| Ambient | As is | >5psi |

SHELF LIFE:

| Storage temperature | Shelf Life |
|---------------------|---------------------|
| 25°C | 1 yr from ship date |

CAUTION: This product may cause skin irritation. Avoid skin contact. If contact does occur, wash immediately with soap and water. Please refer to MSDS for more details.

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