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

IDEAL FOR:

- Electrical and Thermal Grease Replacement
- Electrical and Thermal Gasket Replacement
- Gap Filling

DESCRIPTION:

CPR8850-XT is a silver filled, electrically conductive, electrical and thermal interface material for gap filling application. 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 @ 60°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:

CPR8850-XT is available in sheet sizes, reel, and as custom preforms. Standard thickness is 0.003", 0.006", 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.

CAUTION: This product may cause skin irritation. Avoid skin contact. If contact does occur, wash immediately with soap and water. Please refer SDS for more details. The information contained herein is believed to be reliable. All recommendations or suggestions are made without guarantee inasmuch as conditions and methods of commercial use are beyond our control. 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 to be used in manufacturing and in the final product. Under no circumstance shall AI Technology be liable for accidental, consequential or other damages arising from the use or handling of this product.

While AI Technology owns all proprietary rights of material formulations of its products, specific usage in the manufacturing of certain products may involve patent rights of other companies.

COOL-PAD
CPR8850-XT

TYPICAL PROPERTIES*

Electrical Resistivity (25 °C/ As is)	<4x10⁻⁴ ohm-cm
Dielectric Strength (Volts/mil)	N/A
Glass Transition Temp.(°C)	-60 ±10%
Lap-Shear Strength	N/A
Device Push-off Strength	N/A
Hardness (Type)	<50 (A)
Cured Density (gm/cc)	>5.0
Thermal Conductivity	>112 Btu-in/hr-ft²-°F >16.5 W/m-°c
Linear Thermal Expansion Coeff. (ppm/°C)	160 ±15%
Maximum Continuous Operation Temp. (°C)	<150

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Usage Conditions

<u>Temperature</u>	<u>Time</u>	<u>Pressure</u>
Ambient	As is	>5 psi

SHELF LIFE:

<u>Storage temperature</u>	<u>Shelf Life</u>
25°C	1 yr in original sealed package