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COOL-GAP
CPR7155

Non-curing
Compressible Thermal Pad
Flexible From -60 to150°C
Melt-Flow @ 60°C

IDEAL FOR:

- Thermal Grease Replacement
- Thermal Gasket Replacement
- Gap Filling

DESCRIPTION:

CPR7155 is an alumina crystallite filled, electrically insulating, thermal interface material for gap filling application. It is designed to have high compressibility and enhance thermal transfer from power device to heat-sink. In addition, it undergoes melt-flow phase-change at 60°C to eliminate any trapped air between the interfaces. It also has slightly enhanced bonding after the phase-change.

UL94V-0 Rating

AVAILABILITY:

CPR7155 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-GAP between device and heatspreader or heat-sink.
- (3) Clamp with >5 psi for optimum conformance.

- (4) The temperature at which the phase changes is 60°C.

TYPICAL PROPERTIES*

Electrical Resistivity (25 °C/ As is)	>1x10 ¹³ ohm-cm
Dielectric Strength (Volts/mil)	>300V/mil
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)	>2.5
Thermal Conductivity	>14 Btu-in/hr-ft ² -°F >2.0 W/m-°C
Linear Thermal Expansion Coeff. (ppm/°C)	160 ±15%
Maximum Continuous Operation Temp. (°C)	<200

* 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

<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

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.

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