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**COOL-GAP**  
**CPR7155**

**Non-curing  
 Compressible Thermal Pad  
 Flexible From -60 to 150°C  
 Melt-Flow @ 45°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 45°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/ 1s is )	>1x10 <sup>13</sup> ohm-cm
Dielectric Strength (Volts/mil)	>300V/mil
Glass Transition Temp.(°C)	-60
Lap-Shear Strength	Not Applicable
Device Push-off Strength	Not Applicable
Hardness (Type)	<50 (A)
Cured Density (gm/cc)	>2.5
Thermal Conductivity	>14 Btu-in/hr-ft <sup>2</sup> -°F >2.0 W/m-°C
Linear Thermal Expansion Coeff. (ppm/°C)	160
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 to MSDS for more details.

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