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**Ultra-Compressible and Conformal  
 Thermal Interface Pad  
 Phase-Change for Extra Thermal  
 Both-Side Slightly Tacky**

**IDEAL FOR:**

- Thermal Grease Replacement
- Large Thickness Variation Thermal Gap
- Thermal Pad Replacement
- Bridging Differential Heights for Multiple Components

**DESCRIPTION:**

COOL-GUMPAD is a more tacky and compressible version of CGP7156-FR. It is a new class of thermal interface pad, but with performance and characteristics like that of a grease-gel. It is filled with admixture of high thermal conductivity particulates and is electrically insulating. It is engineered for large area and gap filling interface applications and is designed to have high compressibility for up to 1/3 of its original thickness easily to enhance thermal transfer from power device to heat-sink. COOL-GUMPAD CGP7156-5-FR is pressure sensitive on both sides for optimum instant thermal transfer performance.

UL94V-0 Rating. While being slightly tacky, COOL-GUMPAD CGP7156-5-FR is not intended for bonding applications.

**AVAILABILITY:**

COOL-GUMPAD CGP7156-5-FR is available in sheet sizes, reel, and as custom preforms with release liners. Standard thickness is 0.010"; 0.020" and 0.040". Other thicknesses are available upon request.

**APPLICATION PROCEDURES:**

- ( 1 ) Cut or pre-cut to desired size and shape.
- ( 2 ) Remove one side release liner and attach to heatsink or heatspreader.
- ( 3 ) Remove the second release liner and attach the GPR or CPU with pressure to ensure intimate contact.
- ( 4 ) Clamping or mechanical fastener may be used but is not required.

**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-GUMPAD  
 CGP7156-5-FR**

**TYPICAL PROPERTIES\***

Electrical Resistivity ( 25 °C/ As is )	>1x10 <sup>13</sup> ohm-cm
Dielectric Strength (Volts/mil)	>550 V/mil
Glass Transition Temp.(°C)	-55 ±10%
Lap-Shear Strength	N/A
Device Push-off Strength	N/A
Hardness (Type)	<20 (A)
Cured Density (gm/cc)	>3.3
Thermal Conductivity	>56 Btu-in/hr-ft <sup>2</sup> -°F >8.0 W/m-°C
Linear Thermal Expansion Coeff. (ppm/°C)	150 ±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	>2 psi

In high voltage of over 1000V, please test for applicability.

For lower cost with similar compressibility and conformance, please refers to CGP7155-5-FR.

For easier handling and less tackiness, please refers to CGP7155-FR and CGP7156-FR.

**SHELF LIFE:**

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