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Compressible and Conformal Thermal Interface Pad **Phase-Change for Extra Thermal** One 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 CGP7156-DT is a new class of thermal interface pad, but with performance and characteristics like that of a grease-gel. It is filled with modified boron nitride filled 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 to enhance thermal transfer from power device to heat-sink. COOL-GUMPAD CGP7156-DT is pressure sensitive on one side and dry on the second side to facilitate replacement of component on the dry side.

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

COOL-GUMPAD DT **CGP7156-DT**

TYPICAL PROPERTIES*

>1x10 14 ohm-cm **Electrical Resistivity**

(25 °C/ As is

Dielectric Strength (Volts/mil) >550 V/layer 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)

Thermal Conductivity >56 Btu-in/hr-ft2-oF

>8.0 W/m-°C

Linear Thermal Expansion 150 ±15%

Coeff. (ppm/°C)

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.

AVAILABILITY:

COOL-GUMPAD CGP7156-DT 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
- (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.

Usage Conditions

Temperature Time Pressure **Ambient** >2 psi As is

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

SHELF LIFE:

Storage temperature 25°C

1 yr

Shelf Life

in original 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 Al Technology be liable for accidental, consequential or other damages arising from the use or handling of this product.

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PRODUCT DATA SHEET Ver 2.0 4/2/2018