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Fire-retardant

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

IDEAL FOR:

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

DESCRIPTION:

COOL-GUMPAD CGP7155-FR is a new class of thermal interface pad, but with performance and characteristics like that of a grease-gel. It is filled with modified alumina crystallites 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 CGP7155-FR is pressure sensitive on both sides for optimum instant thermal transfer performance.

UL94V-0 Rating. While being slightly tacky, COOL-GUMPAD CGP7155-FR is not intended for bonding applications.

COOL-GUMPAD CGP7155-FR

TYPICAL PROPERTIES*

Electrical Resistivity >1x10 ¹⁴ ohm-cm

(25 °C/ As is

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) >2.5

Thermal Conductivity >16 Btu-in/hr-ft²-°F

>2.0 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 CGP7155-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. For more tacky and even more compressibility, please refers to CGP7155-5-FR.

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.

Usage Conditions

Temperature Time Pressure

Ambient As is >2 psi

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

For higher thermal conductivity of similar compressibility and conformance, please refers to CGP7156-FR.

For more tacky and even more compressibility, please refers to CGP7155-5-FR and CGP7156-5-FR.

SHELF LIFE:

Storage temperature Shelf Life 25°C 1 yr

in original package

<u>CAUTION:</u> 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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