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COOL-BOND
CB7068

Flexible down to -55°C
High Melt-flow >60°C
UL 94V-O/UL 746A Rated
>1000 V Insulation @ 3 mil
Outstanding Thermal Conductivity

IDEAL FOR:

- Thermal Grease Replacement**
- Thermal Gasket Replacement**
- Thermal Adhesive Paste Substitute**
- BGA Thermal Interface Die-Attach**

DESCRIPTION:

CB7068 is an aluminum nitride crystallite filled, electrically insulating, medium bond strength thermal interface material. It is designed to enhance thermal transfer from power device to heat-sink. CB7068 is dry and handles well with automated excise-placement equipment and forms good bond with placement pressure similar to paste adhesives.
 UL 94V-O / UL 746A Rated

TYPICAL PROPERTIES*

Electrical Resistivity (25°C/ 1s is)	>1x10 ¹⁴ ohm-cm
Dielectric Strength (Volts/mil)	>550
Glass Transition Temp.(°C)	-55
Lap-Shear Strength	<600 psi <4.1 N/mm ²
Device Push-off Strength	>600 psi >4.1 N/mm ²
Hardness (Type)	<60 (A)
Cured Density (gm/cc)	2.2
Thermal Conductivity	28 Btu-in/hr-ft ² -°F 4.0 W/m-°C
Linear Thermal Expansion Coeff. (ppm/°C)	110
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:

CB7068 is available in sheet sizes, reel, and as custom preforms. Standard thicknesses are 0.003" and 0.006". Special thicknesses are available.

APPLICATION PROCEDURES:

- (1) Keep at room temperature for 15 minutes before using.
- (2) Cut or pre-cut to desired size and shape.
- (3) Place COOL-BOND between device and heat-sink.
- (4) If it is pre-applied onto heatsink or CPU, place COOL-PAD onto heated heat-sink and heat-spreader.

MELT/FLOW CONDITIONS

<u>Temperature</u>	<u>Time</u>	<u>Pressure</u>
>60°C	0.5 sec	Nominal

SHELF LIFE:

<u>Storage temperature</u>	<u>Shelf Life</u>
0-5°C	1 yr in 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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