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COOL-PAD
CPR7158

Tacky

Non-curing

Compressible Thermal Pad

Flexible From -60 to 150°C

IDEAL FOR:

Thermal Grease Replacement

Thermal Gasket Replacement

Gap Filling

DESCRIPTION:

CPR7158 is an aluminum nitride 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.

UL94V-0 Rating

AVAILABILITY:

CPR7158 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-PAD 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 ¹³ 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	>21 Btu-in/hr-ft ² -°F >3.0 W/m-°C
Linear Thermal Expansion Coeff. (ppm/°C)	160
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.

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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