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COOL-PAD
CP7175

Flexible From -55 to 150°C

Puncture Resistant Pad

Will Not Melt-flow <175°C

>1500 V Insulation @ 3 mil

UL 94V-O Rating

IDEAL FOR:

- Thermal Grease Replacement
- Thermal Gasket Replacement
- High Voltage Insulation

DESCRIPTION:

CP7175 is an aluminum oxide crystallite filled, electrically insulating, thermal interface material with good dielectric insulation. It is designed to enhance thermal transfer from power device to heat-sink. CP7175 is dry and handles well with automated excise-placement equipment. It will not flow below 175°C and is suitable for use as thermal gasket.

TYPICAL PROPERTIES*

Electrical Resistivity (25°C/ 1s is)	>1x10 ¹⁴ ohm-cm
Dielectric Strength (Volts/mil)	>750
Glass Transition Temp.(°C)	-55
Lap-Shear Strength	Not Applicable Not Applicable
Device Push-off Strength	Not Applicable Not Applicable
Hardness (Type)	<80 (A)
Cured Density (gm/cc)	2.0
Thermal Conductivity	12 Btu-in/hr-ft ² -°F 1.8 W/m-°C
Linear Thermal Expansion Coeff. (ppm/°C)	60
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:

CP7175 is available in sheet sizes, reel, and as custom preforms. Standard thickness is 0.003" and 0.006". Special thicknesses are available.

Melt/Flow Conditions

<u>Temperature</u>	<u>Time</u>	<u>Pressure</u>
>175°C (Nominal)	0.5 sec Bond Force)	>10 psi

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 10 psi for optimum conformance.

SHELF LIFE:

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

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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