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**COOL-GEL
 CGL7015**

**Non-silicone Compound
 High Thermal Conductivity
 Form Gel @ 80°C**

IDEAL FOR:

- Vibrational Damping and Protection**
- Low Ionic, Non-silicone Potting**
- Thermal Transfer without Stress**

DESCRIPTION:

CGL7015 is a reworkable, electrically insulating thermally conductive paste. It will cure into gel-like structure at elevated temperature and prevent material migration and spreading to other components. It is extremely low in ionic impurities and may also be used as potting compound to replace traditional silicone thermal gel for vibrational protection.

While it has some holding strength, mechanical supports are recommended for devices that may subject the gel/component to creep and other applied mechanical stress.

AVAILABILITY:

CGL7015 is available in syringes for automatic needle dispense applications or in jars.

APPLICATION PROCEDURES:

- (1) If frozen, thaw for 30 minutes before opening jar.
- (2) Dispense adhesive onto clean substrate. Syringe application may require >50psi pressure.
- (3) If needed, cure according to one of the recommended schedules only when necessary.**

TYPICAL PROPERTIES*

Electrical Resistivity	>1x10¹³ ohm-cm
Lap-Shear Strength	< 300 psi < 2.1 N/mm²
Device Push-off Strength	< 300 psi < 2.1 N/mm²
Hardness (Type)	Gel
Cured Density (gm/cc)	2.3
Thermal Conductivity	14 Btu-in/hr-ft²-°F 2.0 W/m-°C
Maximum Continuous Operation Temp. (°C)	150
Avg. Viscosity(0.5 rpm, 24°C)	300,000 cp

* 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.

CURE SCHEDULES:

<u>Temperature</u>	<u>Time</u>
80°C	16 hr

** Generally no curing is necessary for normal applications. Curing is recommended only when extreme care must be exercised for possible contamination in neighboring sites.

SHELF LIFE:

<u>Storage temperature</u>	<u>Shelf Life</u>
-40°C	1 yr
25°C	1 mo

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