

LINQBOND™ NCA-3120



Non conductive Adhesive

- High reliability adhesive
- Fast curing at low temperatures
- Excellent adhesion to plastics, ceramics and metals

LINQBOND™ NCA-3120 is a one-component, modified epoxy adhesive. It is engineered to provide exceptional reliability to meet requirements for high temperature, high humidity, and thermal shock. Its excellent adhesion properties allow for secure bonding and reinforcement to various substrates, such as plastics, metals, glass, and ceramics. This modified epoxy offers fast curing at low-temperature that minimizes thermal stress on components.

LINQBOND™ NCA-3120 is designed for bonding and reinforcement for electronic and industrial applications such as camera module assembly, LED light lens bonding, electronic components and etc. It can also be used for applications where rapid curing is required and in applications with temperature sensitive components..

Cure Schedule

- 10 minutes at 80°C

Uncured properties

Property	Value	Unit
Chemistry	Modified Epoxy	–
Appearance	Black	-
Viscosity at 25 °C (5rpm)	22000	cps
Thixotropic index (0.5/5rpm)	6	-
Work life @25°C	12	hours

Cured properties

Property	Value	Unit
Glass Transition Temperature (T_g)	30	°C
Coefficient of Thermal Expansion, α_1	70	ppm/°C
Coefficient of Thermal Expansion, α_2	190	ppm/°C
Hardness	80	Shore D
Shear Strength, 25°C	22	MPa
Water Absorption, 24H	0.2	%
Ionic content (Na^+ , K^+ , Cl^- , F^-)	<100	ppm

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Curing Conditions:

- Ramp to 180°C and hold for 10 minutes
- Ramp rate 5°C/min

These conditions serve as a reference only. Please establish the curing conditions based on your application's specific requirements.

Precautions:

1. When the material is taken out of refrigeration, thaw it first prior to use.
 - a. Syringe should be placed vertically while thawing.
 - b. Thaw a 10cc syringe for 1 hour and a 100cc package for >4 hours.
 - c. Medium syringes should be thawed accordingly.
 - d. Keep in an airtight container at room temperature.
2. The adhesive cannot be refrozen once exposed to room temperature.
3. Wear appropriate protective equipment and minimize direct contact with the human body.
4. Refer to the Material Safety Data Sheet (SDS) before use.

Please note that the provided information is based on available data and typical conditions. For specific applications and detailed test results, refer to the actual test data and conduct appropriate certifications.

Storage and Handling

Store and transport in a -15°C temperature. Keep away from fire and heat sources. It is strictly forbidden to store in outdoor environments.

- Shelf life below -15 °C is 365 days.

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