

LINQBOND NCA-9121



Non-conductive B-Stageable Adhesive

- Excellent adhesion to various substrates
- Electrically Insulating
- Enables process flexibility

LINQBOND NCA-9121 is a one-component, B-stageable, modified epoxy adhesive designed for semiconductor and microelectronic packaging applications. It is electrically insulating and exhibits excellent adhesion to a variety of substrates, including die surfaces and silver-plated leadframes. The material is specially formulated for backside wafer applications and is compatible with stencil or screen printing techniques for efficient and consistent deposition.

LINQBOND NCA-9121 B-stage pre-cure process is done via oven heating, enabling tack-free handling and ease of die placement. During die attach, the application of appropriate placement pressure ensures optimal contact and bonding performance. **LINQBOND NCA-9121** is ideal for processes requiring reliable adhesion, process flexibility, and electrical insulation performance in high-density packaging environments.

Curing Conditions: *

- B-Stage Cure: Ramp from room temperature to 110°C in 30mins + soak for 30mins @ 110 °C
- Final Cure: Ramp from room temperature to 185°C in 30mins + soak for 90mins @ 185 °C

** The above cure profile is a guideline recommendation. Cure conditions (time and temperature) may vary based on customers' experience and their application requirements, as well as customer curing equipment, oven loading and actual oven temperatures.*

Uncured Material properties

Property	Value	Unit
Chemistry Type	Modified Epoxy	–
Appearance	White/ Black	–
Viscosity 25 °C	31,000	Cp
Thixotropic Index (TI)	1.2	–
Work Life at 25 °C	24	h

Physical properties

Property	Value	Unit
Shear Strength, 2x2mm		
Si vs Ag-plated LF, @25 °C	7.0	Kgf
Si vs Ag-plated LF, @260 °C	1.0	Kgf

Europe

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Directions For Use:

1. Allow the product and container to reach room temperature before use. After removing from the refrigerator.
2. Set the syringes to stand vertically while thawing. Any moisture that collects on the thawed container should be removed.
3. To prevent contamination of unused product, do not return any material to its original container.
4. DO NOT re-freeze. Once thawed to 25°C, the adhesive should not be re-frozen.
5. Wear appropriate protective equipment and minimize direct contact with the human body. 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 -40°C Temperature. Keep away from fire and heat sources. It is strictly forbidden to store in outdoor environments.

- Shelf life at -40 °C is 6 months.

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