

LINQBOND GT-2301



One-component Glob Top Epoxy

- Excellent adhesion and dimensional stability
- Low moisture absorption and vibration resistance
- RoHS, UL 94 V0 compliant, and halogen-free

LINQBOND GT-2301 is a solvent-free, one-component epoxy adhesive for glob top application of electronic devices. This resin provides excellent protection against moisture and vibration. It develops tough and strong bonds to components providing outstanding shear, peel and impact strength. **LINQBOND GT-2301** cures rapidly even at low temperatures, ensuring efficient production cycles. It provides excellent dimensional stability over a wide temperature range.

LINQBOND GT-2301 offers outstanding physical and electrical properties, including strong adhesion, high electrical insulation, and robust chemical resistance. It ensures reliable performance and with its combined ionics below 1500ppm, it passes environmental and halogen tests.

Cure Schedule

- 120°C for 40 min

Uncured Properties

Property	Value	Unit
Color	Black	–
Viscosity (25 °C, 10 rpm)	65000 ± 20000	cP
Pot life @ 25°C	7	days
Shelf life @ -40°C	365	days

Instructions for Use:

1. Before use, thaw the product to reach room temperature for 1–2 hours. Syringe should be placed vertically while thawing. Keep container airtight until room temperature is reached.
2. Ensure the surface to be bonded is clean and free of contaminants like dirt, grease, or mold release agents. A simple solvent wipe is often sufficient.
3. Cure time may vary based on the actual part geometry, material volume, and equipment. It is recommended to test on actual parts and equipment.
4. For large-scale applications, consider a staged curing process: start with a lower temperature precure, followed by a full cure at a higher temperature to effectively manage heat release.
5. The epoxy cannot be refrozen once exposed to room temperature.

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Cured Properties¹

Property	Value	Unit
Glass Transition Temperature (DSC)	130	°C
Coefficient of Thermal Expansion (CTE), α_1	50	ppm/ °C
Coefficient of Thermal Expansion (CTE), α_2	160	ppm/ °C
Water Absorption Ratio (25 °C /24 h)	0.58	%
Water Absorption Ratio (80 °C /24 h)	2.05	%
Durometer Hardness	89	Shore D
Surface Resistivity	4.5×10^{14}	Ω
Volume Resistivity	4.5×10^{15}	$\Omega \cdot \text{cm}$
Dielectric Constant at 1kHz	3.2	–
Degradation Temperature (TGA, 10 °C /min)	316	°C
Weight Loss Ratio @300°C	2.98	
Specific Gravity	1.48	–

¹ Above values were measured with material cure condition 120 °C for 40 min

Storage and Handling

Store and transport in a -40°C to -5°C Temperature. Keep away from moisture and heat sources. It is strictly forbidden to store in outdoor environments. Lower temperatures will ensure better flow and nullify any chance of crosslinking.

- Shelf life at -40 °C to -5°C is 365 days.

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