

LINQBOND EO-830MT



One-component, high performance epoxy adhesive

- Designed for structural metal bonding on different substrates
- High crack and fatigue resistance
- RoHS compliant

LINQBOND EO-830MT is a one-component, high-performance epoxy adhesive specifically designed for structural metal bonding to various substrates such as ceramics and glass fibers. It provides excellent resistance to cracking and fatigue, strong adhesion, and high tensile strength. It is ideal for applications that demand high reliability and long-term durability.

LINQBOND EO-830MT has a long pot life at room temperature and cures effectively at high temperatures (>120 °C). It also has high viscosity and excellent sag resistance during application and curing. Additionally, it complies with different environmental regulations, including the RoHS 2011/65/EU Directive.

Uncured Properties

Property	Value	Unit
Appearance	Liquid, black	–
Viscosity (25 °C) <i>Spindle 14, 3 rpm</i>	600,000–950,000	cps
Thixotropic Index	≥2.2	–

Recommended Curing Conditions

Property	Value	Unit
Pot Life (25 °C)	5–7	day
Cure Time (150 °C)	60	min

Instructions for Use

1. Make sure that the substrate is clean and free of contaminants, such as dirt, grease, or mold release agents. A simple solvent wipe is often sufficient.
2. Before use, allow the sealed container to equilibrate to room temperature (14–34 °C) for 1–2 hours.
3. Cure time will depend on actual production parts and equipment such as part geometry, materials, bondline thickness and the oven temperature.
4. Curing profiles should be considered carefully in specific application to avoid extreme heat release and consider gradually cooling to minimize the thermal stress.
5. For maximum bonding strength and properties, apply the adhesive evenly to one or both surfaces to be joined, increase the curing temperature or prolong the curing time.

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Cured Properties

Property	Value	Unit
Hardness	86	Shore D
Glass Transition Temperature (DSC)	183	°C
Coefficient of Thermal Expansion (CTE), α_1	67	ppm/°C
Specific Gravity	1.45	–
Weight Loss Ratio at 100 °C at 200 °C	0.09 0.44	%
Water Absorption Ratio at 25 °C during 24 h at 80 °C during 24 h	0.70 2.18	%

Note: Sample was cured at 150 °C for 1 hour.

Caution for Use

While the risk of carcinogenicity from skin contact is considered low, mild skin redness may occur. In the event of skin contact, immediately wash thoroughly with soap and water, avoid the use of solvents. Ingestion of this product is moderately toxic, if the product is accidentally swallowed, do not induce vomiting unless directed by medical personnel. In case of eye contact, immediately flush the affected eye(s) thoroughly with clean water for a minimum of 15 minutes and seek medical attention promptly. For comprehensive safety information, please consult the Material Safety Data Sheet (MSDS).

Storage

and

Handling

Store the original and unopened container in a cool, dry place, strictly away from any moisture and heat exposure. The shelf life is up to 243 days (8 months) when stored between 2 °C and 13 °C, and up to 365 days (12 months) when stored between –40 °C and –5 °C.

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