

OPTOLINQ™ LE-EP123



One-part optically clear epoxy resin

- Excellent thermal stability
- Excellent UV stability
- High light transmittance

OPTOLINQ™ LE-EP123 is a high-performance, single-component epoxy resin that delivers exceptional optical clarity, robust bonding, and thermal stability. It is ideal for demanding applications where light transmission and structural integrity are critical. This advanced material offers a wide curing temperature range, excellent anti-sagging properties, and superior high-temperature resistance, making it perfect for prepreg and impregnation processes. **LE-EP123** is available with light diffusant depending on customer requirement.

Uncured Properties

Property	Part A	Unit
Appearance	Colorless Transparent	-
Viscosity	15000 $\pm$ 5000	cP
Specific gravity	1.0 $\pm$ 0.05	-
Gel Time at 150°C	675 $\pm$ 75	s
Shelf life at -10°C	3	months

Cured Properties

Property	Value	Unit
Glass Transition Temperature (DSC)	100 $\pm$ 5	°C
Glass Transition Temperature (TMA)	115 $\pm$ 3	°C
Coefficient of Thermal Expansion, α 1	62	ppm/°C
Coefficient of Thermal Expansion, α 2	190	ppm/°C
Hardness	85 $\pm$ 5	Shore D
Refractive Index	1.527	-
VIS and IR Light Transmittance	>90	%

The technical data presented above is intended for reference purposes only. Users are advised to conduct their own testing and evaluation to ensure compatibility with their specific requirements. Material properties can be adjusted according to specific customer requirements.

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Recommended curing conditions:

- 150 °C for 1 hour

These guidelines offer recommended curing parameters. Define the exact curing parameters to align with your product specifications.

Precautions for Use

1. This product needs to be stored at low temperatures and at dry places. The shelf life will vary depending on the storage conditions.
2. Before use, allow the material to reach room temperature (15–25°C, 25–55% RH) for at least 2 to 4 hours, ensuring the packaging is unopened to prevent moisture contamination.
3. Preheat the material at 40–60 °C for about 30–60 minutes.
4. Maintain a clean and ventilated workplace with proper ventilation and exhaust system.
5. Wear appropriate safety equipment before use and avoid direct contact with the body. Please read the Safety Data Sheet (SDS) carefully before using.

Storage and Handling

Store in a cold, dry, and clean environment, ideally at –10 °C or lower with relative humidity below 70%. Keep away from exposure to direct sunlight. It is strictly forbidden to store in outdoor environments. At proper storage conditions, unopened material has a shelf life of 3 months.

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