OPTOLINQ **LE-2161**

Two-part low-viscosity transparent epoxy resin

- Low viscosity
- Fast curing
- High transparency and good electrical properties

OPTOLINQ LE-2161 is a transparent, two-part epoxy resin ideal for potting small components and sealing large dot matrix panels. It offers a fast curing rate, moderate curing temperature, and low viscosity post-mixing, and delivers exceptional electrical properties and transparency upon curing. To meet specific color requirements, it can easily be colored and diffused using specialized dye concentrates and diffusant concentrates.

OPTOLINQ LE-2161 serves as an ideal option for various electronic applications, including smart rings, due to its ability to encapsulate delicate electronic components while maintaining transparency and providing robust electrical insulation.

Premixed properties

Property	Part A	Part B
Appearance	Light purple transparent viscous liquid	Colorless transparent liquid
Specific gravity at 25 °C	1.1–1.2	0.9–1.0
Viscosity at 25 °C	2100–3500 cP	30–130 cP
Shelf life	183 days	93 days

Mixed properties

Property	Value	Unit
Mixing ratio by weight	3:1	-
Pot life for a 100 g resin at 25 °C	100–120	min

Cured properties*

Property	Value	Unit
Water absorption at 25 °C (24 h soaking)	<0.3	%
Volume resistivity at 25 °C	$1.6x10^{15}$	Ω·cm
Surface resistance at 25 °C	$1.5x10^{15}$	Ω
Coefficient of thermal expansion	80	ppm/K
Withstand voltage	20	kV/mm

**Test sample was cured at 60 °C for 4 h.*

Europe
Industrieweg 15E,
1566JN Assendelft
The Netherlands
Phone: +31 (20) 893 2224
Email: info@caplinq.com

Canada
80 Sirocco Crescent
Ottawa ON, K2S 2C9
Canada
Phone: +1 (613) 482-2215
Email: info@caplinq.com

North America
36927 Schoolcraft Rd
Livonia, MI 48150
United states
Phone: +1 (313) 558-8243
Email: info@caplinq.com

South East Asia
S-08-07 Persiaran Triangle
B Lepas, Penang 11900
Malaysia
Phone: +60(12)4302223
Email: info@caplinq.com

Recommended curing conditions: Cure at **25 °C for 24 h** or at **50–60° C for 4 h.**

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

Precautions for Use

1. The usable time after A and B are mixed strongly depends on the temperature and mixing volume. Higher temperatures and larger mixing volumes lead to shorter working times. Therefore, the mixing temperature and amount should be determined based on on-site procedures.
2. Use the product in a clean and well-ventilated workplace.
3. Wear appropriate safety equipment before use and avoid direct contact with the body. Please read the Material Safety Data Sheet (SDS) carefully before using.

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 in a ventilated, dry, and clean environment. Keep away from fire and heat sources. It is strictly forbidden to store in outdoor environments. The validity time will vary depending on storage conditions. At proper storage conditions, Part A and Part B have a shelf life of 183 and 93 days, respectively. Shelf life can be extended by using cold storage.

Europe
Industrieweg 15E,
1566JN Assendelft
The Netherlands
Phone: +31 (20) 893 2224
Email: info@caplinq.com

Canada
80 Sirocco Crescent
Ottawa ON, K2S 2C9
Canada
Phone: +1 (613) 482-2215
Email: info@caplinq.com

North America
36927 Schoolcraft Rd
Livonia, MI 48150
United states
+1 (313) 558-8243
Email: info@caplinq.com

South East Asia
S-08-07 Persiaran Triangle
B Lepas, Penang 11900
Malaysia
Phone: +60(12)4302223
Email: info@caplinq.com