Product **Optimax® UV-8046-LV Epoxy**

Description

Optimax® 8046-LV is a specialised UV cured epoxy resin designed for demanding manufacturing applications. Optimax® 8046-LV is a fast curing, UV curable epoxy adhesive designed for bonding a wide range of substrates including engineering plastics, metals, glass, acrylic and ceramics.
Optimax® 8046-LV can also be used for potting and encapsulation applications.

Optimax® 8046-LV bonds in seconds under UV light and provides tough impact resistant adhesion to both flexible and rigid substrates.

Features

One-Part UV snap cure
Clear
Tack free on cure
Suitable for electronic manufacturing applications
Adhesion to a wide range of manufacturing substrates
Excellent environmental, chemical and water-resistant properties

Physical properties – uncured adhesive

Composition	Epoxy
Viscosity @ 25°C	300-500 cps
Colour	Clear
Specific Gravity	1.12

Physical properties – cured adhesive

Hardness, Shore D	83
Elongation, %	5%
Operating Temperature Range, °C	-55 to +200
Glass transition temperature (Tg) °C	135
CTE	77 x 10^{-6} m/°C
Water absorption (100°C x 2h)	1.2%
Shelf life below 25°C	12 months
Volume resistivity	1 x 10^{14}Ω.m

UV Light Cure Data

Minimum Intensity	200mW/cm^2
Spectral Output	315-365nm
Optimum Cure Wavelength	365nm

Cure Overview

This product requires direct UV exposure during cure. Because of the variability of different UV light sources, it is suggested that the user test and specify UV intensity and exposure time. Low intensity UV light sources (200 mW/cm^2) may require as much as a 20 second exposure time.

Cure time

UV exposure time	5-20 seconds

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Storage	Store between 8°C to 21°C out of direct sunlight and in tightly sealed original containers. Refer to packaging specific quote for shelf-life information.
General information	For safe handling of this product consult the Material Safety Data Sheet.
Data ranges	The data contained in this data sheet may be reported as typical value and/or range. Values are based on actual test data and are verified on a regular basis.
Safety	Consult the Material Safety Data Sheet.
Notes	The information contained herein is produced in good faith and is believed to be reliable but is for guidance only. Novachem Corporation Ltd. and its agents cannot assume liability or responsibility for results obtained in the use of its product by persons whose methods are outside or beyond our control. It is the user's responsibility to determine the suitability of any of the product and methods of use or preparation prior to use mentioned in our literature and furthermore the user's responsibility to observe and adapt such precautions as may be advisable for the protection of personnel and property in the handling and use of any of our products.

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