

## SNAPSIL™ TUV3805D-LB UV DUAL CURE SILICONE

### Product Description

SNAPSIL™ TUV3805D-LB is a one-component UV curable silicone sealing material. It can be selectively dispensed on display modules and can also provide flowability to penetrate tight spaces. TUV3805D-LB silicone features a UV cure formulation that enables faster cure and physical stability with exposure to UV light, followed by a secondary room temperature or thermal cure mechanism that gradually improves adhesion to the substrate. The secondary cure feature also can help achieve more complete cure in shadow areas where UV light penetration is limited. TUV3805D-LB silicone has soft post-cure properties that can contribute to stress-relief of delicate electronics components.

### Key Features and Typical Benefits

- Convenient, one-part solution
- Fast UV primary cure, which can contribute to reduction in cycle times
- Secondary room temperature cure to build adhesion and cure shadow sections
- Provides good electrical properties

### Typical Physical Properties

	Unit	TUV3805D-LB
<b>Uncured Properties</b>		
Appearance		Light Blue
Viscosity (20 rpm)*1	Pa.s	3.5
Thixotropic index*1		1.0
<b>Primary Cure(UV)</b>	<b>LED 365 nm</b>	<b>5,000 mJ/cm2</b>
<b>Secondary Cure</b>	<b>50% RH</b>	<b>25°C for 3days</b>
Density	g/cm3	1.01
Hardness	Shore A	30
Tensile strength	MPa	0.7
Elongation	%	120
Adhesion strength*2	MPa	1.0
Tack free time by only moisture, without UV	min	30
Low Volatile Siloxane	Ppm (D4~D10)	<300
Shelf life*3	month	9

\*1: viscosity – 20 rpm, Rheometer, Thixotropic Index – 10 rpm /20 rpm, Rheometer

\*2: Glass, FR-4 Lap shear

\*3: storage condition sealed at 5°C

Typical properties are average data and are not to be used as or to develop specifications.

## General Considerations for Use

- Materials such as water, sulfur, nitrogen compounds, organic metallic salts, phosphorus compounds, etc. contained in the surface of the substrate can inhibit curing.
- A sample patch should always be tested prior to proceeding in order to determine compatibility.
- All parts should be as clean and dry as possible prior to application.
- Eye protection and protective gloves should be always worn when working with this product.
- Always maintain adequate ventilation in the workplace.
- Keep out of the reach of children.

## Storage

- Store in a cool dry place out of direct sunlight
- Shelf life at below 5°C is 9 months

## Available Package

- 300ml Cartridge
- 50ml EFD Syringe

## Patent Status

Nothing contained herein shall be construed to imply the nonexistence of any relevant patents or to constitute the permission, inducement or recommendation to practice any invention covered by any patent, without authority from the owner of the patent.

## Product Safety, Handling and Storage

Customers should review the latest Safety Data Sheet (SDS) and label for product safety information, safe handling instructions, personal protective equipment if necessary, emergency service contact information, and any special storage conditions required for safety. Momenitive Performance Materials (MPM) maintains an around-the-clock emergency service for its products. SDS are available at [www.momentive.com](http://www.momentive.com) or, upon request, from any MPM representative. For product storage and handling procedures to maintain the product quality within our stated specifications, please review Certificates of Analysis, which are available in the Order Center. Use of other materials in conjunction with MPM products (for example, primers) may require additional precautions. Please review and follow the safety information provided by the manufacturer of such other materials.

## Limitations

Customers must evaluate Momenitive Performance Materials products and make their own determination as to fitness of use in their particular applications.

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