



AC A1404-I

UV-Curable Epoxy Sealant for OLED/PLED Encapsulation

Features

- High Tg
- Low moisture permeability
- Good adhesion to various substrates: glass, metal and ceramic.
- Low CTE

Description

- UV-curable epoxy sealant

APPLICATIONS

OLED and PLED Encapsulation.

TYPICAL PROPERTIES

Liquid

Viscosity (cps, 25 °C)	35,000 – 45,000
Storage (°C)	20 – 25

Cured film

Water permeability (50 °C/95% RH, g/m ² 24 hrs, ASTM E96-80)	3.4
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Shrinkage (linear, %)	<0.3
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Hardness – Shore D	90-95
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Glass transition temperature (°C) (DMA)	106
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Physical properties tested at 25°C, 50% RH (ASTM D638)

Elongation (%)	3
Modulus, psi (Kg/mm ²)	457,000 (320)

Coefficient of thermal expansion (TMA), 75 µm film	
below Tg (x10 ⁻⁶), °C ⁻¹	28
above Tg (x10 ⁻⁶), °C ⁻¹	65

UV curing conditions: @25 °C, <40% relative humidity, 75 µm

<u>Flood curing system – UV dose (J/cm²)</u>	1 - 2
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<u>Spot cure system – UV dose (J/cm²)</u> 250 – 450 nm filter	35 - 40
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Operating temperature (°C)	-60 to160
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SAFETY AND HANDLING

The un-cured adhesive can be cleaned from apparatus with isopropyl alcohol (IPA), methyl ethyl ketone (MEK), or commercial alcohol based cleaning solution.

Use caution in handling this material. Avoid direct skin and eye contact. Use only in well ventilated areas. Use protective clothing, **gloves and safety goggles**. Read Material Safety Data Sheet before handling.

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