

AC A1430-B

UV-Curable Epoxy Sealant for Rigid OLED Applications

Features

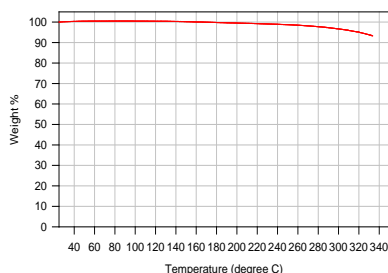
- High Tg
- Low moisture permeability
- Good adhesion to various substrates: glass, metal and ceramic.
- Low CTE

Description

- UV-curable epoxy OLED sealant

Thermogravimetric analysis

- Thermal stability of cured adhesive was studied by thermogravimetric analysis in nitrogen at a scan rate of 20 °C/min



APPLICATIONS

Sealing the edge of OLED/PLED devices. Recommended for use in sealing rigid OLED/PLED.

TYPICAL PROPERTIES

Liquid

Viscosity (cps, 25 °C)	90,000 to >100,000
Storage (°C)	20 – 25
Shelf life (20 – 25 °C)	6 months
Pot life (20 – 25 °C)	3 months

Cured film

Water Transmission Rate (50 °C/95% RH, g/m ² 24 hrs, ASTM E96-80)	3.0
Water permeability (g/m 24 hrs) (50 °C/95% RH, 75 μm film)	2 x 10 ⁻⁴
Shrinkage (linear, %)	<0.3
Hardness – Shore D	94
Glass transition temperature (°C) (DMA)	110
Physical properties tested at 25°C, 50% RH (ASTM D638)	
Elongation (%)	3
Modulus, psi (Kgf/mm ²)	457,000 (320)
Coefficient of thermal expansion (TMA), 75 μm film	
below Tg (x10 ⁻⁶), °C ⁻¹	40
above Tg (x10 ⁻⁶), °C ⁻¹	110
UV curing conditions	
Flood curing system – UV dose (J/cm ²)	4.0 – 6.0
Spot cure system – UV dose (J/cm ²) 250 – 450 nm filter	35-40
Operating temperature (°C)	-60 to 200

***Minimum intensity recommended for Spot lamp system: 100 mW/cm²

***Minimum intensity recommended for Flood lamp system: 49 W/cm or 125 WPI or 100 mW/cm²

***Post cure at 80 to 100 °C for 1 – 2 hrs after UV curing will enhance adhesion

Maximum relative humidity for curing: 40%

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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