

AC A1438-S1

UV-Curable Epoxy Sealant

Features

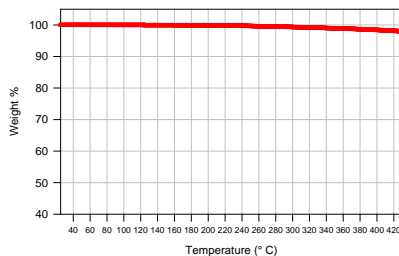
- High Tg
- Low moisture permeability
- Good adhesion to various substrates: glass, metal and ceramic.
- Low CTE

Description

- UV-curable epoxy sealant

Thermogravimetric analysis

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



APPLICATIONS

Semiconductor packaging and display edge sealing.

TYPICAL PROPERTIES

Liquid

Viscosity (cps, 25 °C)	26,000 to 31,000
Storage (°C)	20 – 25
Shelf life (20 – 25 °C)	6 months
Pot life (20 – 25 °C)	3 months

Cured film

Shrinkage (linear, %)	<0.3
Hardness – Shore D	90-95
Glass transition temperature (°C) (DMA)	160
Physical properties tested at 25°C, 50% RH (ASTM D638)	
Elongation (%)	4-6
Modulus, MPa	3,000

UV curing conditions

Flood curing system (high pressure Hg lamp)

UV dose (J/cm ²)	2.0 – 4.0
Tack free time (100 mW/ cm ²)	20 to 40 sec

Operating temperature (°C)	-60 to 180
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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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