

AC A1429-F1

Flexible Sealant for Flexible OLED Devices

Features

- Excellent adhesion to flexible substrates
- Low moisture permeability

Description

- UV curable epoxy sealant

APPLICATIONS

Sealant for flexible OLED devices

TYPICAL PROPERTIES

Liquid

Viscosity (cps, 25 °C)	6,000 – 7,500
Storage (°C)	20 to 25
Shelf Life (20 - 25°C)	6 months
Pot Life (20 - 25°C)	3 months

Cured film

Shrinkage (linear, %) 0.1

Water permeability (g/m 24 hrs)
(50 °C/95% RH, 75 µm film) 3 x 10⁻⁴

Glass transition temperature (°C, DMA) 110

Hardness – Shore D 75

Coefficient of thermal expansion (TMA), 75 µm film
below Tg (x10⁻⁶), °C⁻¹ 80
above Tg (x10⁻⁶), °C⁻¹ 195

Physical properties tested at 25°C, 50% RH (ASTM D638)

Tensile, MPa	12
Elongation (%)	15
Modulus, MPa	230

Operating temperature (°C) -50 to 120

UV curing conditions

Spot cure system – UV dose (J/cm²), air
250 – 450 nm filter 25 - 35

Flood cure system – UV dose (J/cm²), air 2.0 to 4.0

* Maximum relative humidity for curing: 40%

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

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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