

AC R260-A1

Low RI, Low Viscosity, UV-Curable Adhesive

Features

- Low RI
- Low viscosity
- Excellent Adhesion to glass

Description

- UV-Curable Adhesive

APPLICATIONS

Optical switches, Waveguide bonding, clad

TYPICAL PROPERTIES

Liquid

Viscosity (cps, 25 °C)	450 to 650
Storage (°C)	15 to 25
Shelf life (15 - 25 °C)	6 months
Pot life (15 - 25 °C)	3 months

Cured film

Shrinkage (linear, %)	< 0.3
Glass transition temperature (°C, DMA)	50
Hardness – Shore D	45-50
Refractive index of cured film (25°C)	
@ 589 nm	1.458
@ 1320 nm	1.448
@ 1550 nm	1.445
Coefficient of thermal expansion (TMA)	
below Tg (x10 ⁻⁶), °C ⁻¹	64
above Tg (x10 ⁻⁶), °C ⁻¹	200
Physical properties tested at 25°C, 50% RH (ASTM D638)	
Elongation (%)	120
Modulus, psi (kgf/mm ²)	13,000 (9)
Operating temperature (°C)	-40 to 140
UV curing conditions	
<u>Spot cure system – UV dose (J/cm²), air</u>	
250 – 450 nm filter	2.0 to 4.0
<u>Flood cure system – UV dose (J/cm²), air</u>	0.6 to 1.0

* Minimum intensity recommended for Spot lamp system: 500 mW/cm²

** Intensity recommended for Flood lamp system: 20 mW/cm² or 125 W/in²

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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