

AC R262-MOD-5

Low RI, High Tg and Low Viscosity UV-curable adhesive

Features

- Low RI
- High Tg
- Low viscosity
- Hard

Description

- Acrylate based adhesive

APPLICATIONS

Optical switches, Waveguide bonding, clad

TYPICAL PROPERTIES

Liquid

Viscosity (cps, 25 °C)	220 - 280
Storage (°C)	15 – 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) 117

Hardness – Shore D 80

Refractive index of cured film (25°C)

@ 589 nm	1.455
@ 1320 nm	1.444
@ 1550 nm	1.442

Coefficient of thermal expansion (TMA, 1mm film)

below Tg ($\times 10^{-6}$), °C ⁻¹	18
above Tg ($\times 10^{-6}$), °C ⁻¹	125

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

Elongation (%)	5
Modulus, psi (kgf/mm ²)	100,000 (70)

Operating temperature (°C) -40 to 170

UV curing conditions

Spot cure system – UV dose (J/cm²), air (nitrogen)
250 – 450 nm filter 1.0

Flood cure system – UV dose (J/cm²), air (nitrogen) 0.6

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

** Intensity recommended for Flood lamp system: 49 WPCm or 125 WPI

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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