

# 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 <sup>-1</sup>	18
above Tg ( $\times 10^{-6}$ ), °C <sup>-1</sup>	125

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

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

Operating temperature (°C) -40 to 170

UV curing conditions

Spot cure system – UV dose (J/cm<sup>2</sup>), air (nitrogen)  
250 – 450 nm filter 1.0

Flood cure system – UV dose (J/cm<sup>2</sup>), air (nitrogen) 0.6

\* Minimum intensity recommended for Spot lamp system: 100 mW/cm<sup>2</sup>

\*\* Intensity recommended for Flood lamp system: 49 W/cm 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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