

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 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.

The information presented here represents our best available information and is believed to be reliable, but it and does not constitute any guarantee or warranty. Inasmuch as Addison Clear Wave has no control over the exact manner in which others may use this information, it does not guarantee the results to be obtained. Nor does the company make any expressed or implied warranty of merchantability, or fitness for a particular purpose concerning the effects or results of such use. Purchasers are further responsible for determining the suitability of the product for its intended use and the appropriate manner of utilizing the production processes and applications so as to ensure safety, quality and effectiveness. Addison Clear Wave makes no warranties and assumes no liability in connection with the use or inability to use this product.