



## AC R220-B

### Hard UV-Curable Low Refractive Index Cladding Compound

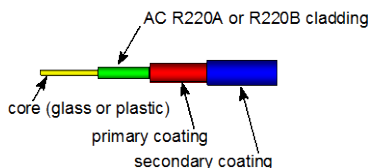
#### Features

- Low refractive index
- Hard cladding material
- Excellent solvent resistance

#### Description

- UV-curable cladding material

#### optical fiber construction



#### APPLICATIONS

Optical fiber hard cladding.

#### TYPICAL PROPERTIES

##### Liquid

Viscosity (cps, 25 °C)	200 - 275
Storage (°C)	15 - 25
Shelf life (15 - 25 °C)	6 months
Pot life (15 - 25 °C)	3 months

##### Cured film

Water absorption (% , 100 °C until saturation)	0.1
Outgas (weight %, 125°C, 120 hr, air)	0.17
Shrinkage (linear, %)	1.0
Refractive index of cured film (25°C)	
@ 589 nm	1.420
@ 1320 nm	1.411
@ 1550 nm	1.409
Glass transition temperature (°C)	23
Coefficient of thermal expansion (TMA), 75 µm film	
below Tg (x10 <sup>-6</sup> ), °C <sup>-1</sup>	74
above Tg (x10 <sup>-6</sup> ), °C <sup>-1</sup>	130
Physical properties tested at 25°C, 50% RH (ASTM D638)	
Elongation (%)	4.2
Modulus, psi (kgf/mm <sup>2</sup> )	30,000 (21)
Hardness – Shore D	60 - 70
UV curing conditions	
Flood cure system – UV dose (J/cm <sup>2</sup> ) - Under Nitrogen	>1.0

#### 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 insure 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.