

# AC A109-P

## UV-curable Laminating Adhesive

### Features

- Fast Cure
- Excellent adhesion to plastics, glass and metal
- Good wetting performance

### Description

- UV-curable adhesive

### APPLICATIONS

Bonding and laminating applications

### TYPICAL PROPERTIES

#### Liquid

|                        |                |
|------------------------|----------------|
| Viscosity (cps, 25 °C) | 9,000 – 13,000 |
| Storage (°C)           | 15 to 25°C     |
| Shelf Life (20 - 25°C) | 6 months       |
| Pot Life (20 - 25°C)   | 3 months       |

#### Cured film

Shrinkage (linear, %) < 0.3

Glass transition temperature (°C, DMA) 46

Water absorption (% , 100 °C until saturation) 0.25

Refractive index of cured film (25°C)  
@ 589 nm 1.50

Hardness – Shore D 17 to 20

Physical properties tested at 25°C, 200 µm film, 50% RH (ASTM D638)

|                      |     |
|----------------------|-----|
| Tensile, MPa         | 2.5 |
| Elongation (%)       | 900 |
| Young's modulus, MPa | 2   |

Coefficient of thermal expansion (TMA), 75 µm film  
below Tg ( $\times 10^{-6}$ ), °C<sup>-1</sup> 180  
above Tg ( $\times 10^{-6}$ ), °C<sup>-1</sup> 250

Operating temperature (°C) -40 to 100

#### UV curing conditions

Flood cure system – UV dose (J/cm<sup>2</sup>) 0.3 to 1.0

\*\* Intensity recommended for Flood lamp system: 49 W/cm or 125 WPI

### STORAGE

This product is light sensitive. It should be stored in the original container in a cool and dry place. It should be kept away from heat and light to obtain the maximum shelf life. Improper storage may result in gelation of the product.

### 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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