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

<table>
<thead>
<tr>
<th>Liquid</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Viscosity (cps, 25 °C)</td>
<td>9,000 – 13,000</td>
</tr>
<tr>
<td>Storage (°C)</td>
<td>15 to 25°C</td>
</tr>
<tr>
<td>Shelf Life (20 - 25°C)</td>
<td>6 months</td>
</tr>
<tr>
<td>Pot Life (20 - 25°C)</td>
<td>3 months</td>
</tr>
</tbody>
</table>

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 (x10^-6), °C^-1: 180
- above Tg (x10^-6), °C^-1: 250

Operating temperature (°C)
- -40 to 100

UV curing conditions
- Flood cure system – UV dose (J/cm²): 0.3 to 1.0

** Intensity recommended for Flood lamp system: 49 WPcm 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.

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.