

AC A109-PLV

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)	4,000 to 7,000
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 (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 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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