

UVA4101 **UV Cure Adhesive**

UVA-4101-6 is a high viscosity acrylic adhesive, formulated for fast cure to glass and glass bearing substrates even under low power UV lamp systems. **UVA-4101-6** will not yellow under extended exposure to light and outlasts 30+ dishwasher cycles and a -50°C soak test with no detrimental effects. **UVA-4101-6's** low viscosity adapts itself to use with automated or manual dispensing equipment. Through cure to 1/8" can be accomplished in less than 30 seconds with a 15 mW/cm² medium pressure Hg UV lamp. The adhesion of **UVA-4101-6** to substrates such as glass, paper, tinned copper wire, epoxy and phenolic are excellent.

Typical Physical Properties:

Color:	Clear Liquid
Viscosity:	600,000 cps
Thixotropic Index:	4.5
Specific Gravity at 23°C:	1.13
Refractive Index [RI _{n=20}]:	1.4823
Glass Transition Temperature [T _g] by DSC:	82°C
Cured Shore D Hardness [instantaneous / 15 seconds]:	80-90 D
Glass to Glass Lap Shear Strength:	>250 psi typ ¹
Gel Time:	<30 seconds
Depth of cure of 0.125" under 15 mW/cm ² med. press. Hg lamp	
Hot/Wet Cycling Test: Glass to glass substrates after 30 full dishwasher cycles	No delamination
Low Temperature Adhesion Test: Glass to glass substrates at -50°C	No delamination
Elongation:	>50%
Tensile Strength	5000 psi

Notes:

1) Using glass microscope slides which have been cured to a one inch overlap with this adhesive, the glass slide will rupture before the overlap will shear apart.

Important Notice to Users: Typical properties are shown in this technical bulletin and should not be used or taken as specifications. Contact Polymark prior to establishing specifications. The information given for product description, typical handling properties and typical cured properties are offered solely to assist the purchaser's own testing. Polymark, its sales agents and distributors make NO WARRANTY OF MERCHANTABILITY OF THE PRODUCT OR THE FITNESS OF THE PRODUCT FOR ANY PARTICULAR PURPOSE. This product and all information supplied in connection with it is used at the purchaser's own risk, conditions of use being beyond Polymark's knowledge or control. The purchaser assumes all risk of use or handling of the product, whether in accordance with directions or not.