

## UV3401

### Photo-light & UV Curing Adhesive

UV3401 is a one-component, UV-curable, acrylic adhesive. This product specializes. Designed for sealing and covering protection of electronic components; the product has medium viscosity, fast curing speed, and is durable. Good climate and other characteristics.

#### UNCURED PROPERTIES

Properties	Reference
Chemical composition	Polyurethane acrylic resin
Physical state	Liquid
Appearance	Colorless transparent viscous liquid
Viscosity (25°C, spindle viscometer 4#30 mPa.s)	7000-11000
Specific gravity Kg/L	1.08
Solvent content (%)	0
Heavy metal content PPM	0

#### TYPICAL CURING PROPERTIES

UV3401 will cure under sufficient ultraviolet irradiation, and the curing speed and depth are determined by light intensity, the spectral distribution of the light source, the irradiation time and the light transmittance of the adhered material. The following data is at 395nm wavelength measured under the condition that the LED surface light source produces 220mw/cm<sup>2</sup> ultraviolet radiation:

Properties	Reference
Tack free time (1mm)	15-20s
Deep curing time (1mm)	5-10 s
Full cure energy (1mm)	5000 mJ/cm <sup>2</sup>

\*Recommended Curing Equipment: FUV-100 UV Oven Curing & CUJ-350 UV Conveyor Curing

#### CURED PROPERTIES

The following data are measured after curing using a 395nm wavelength LED surface light source with a cumulative energy of 5000mj/cm<sup>2</sup>

Properties	Test method	Reference
Hardness	Shore D	40-45
Operating temperature range	-40-130 °C	Customers conduct self-test with workpieces
Appearance	Visual inspection	Transparent

#### ELECTRICAL PROPERTIES

Properties	Reference
Dielectric constant (100MHz)	3.08
Dielectric loss (1MHz)	0.03
Dielectric strength (KV/mm)	26.7
Surface resistivity (Ω)	1.49x10 <sup>16</sup>
Volume resistivity (Ω.cm)	4.64x10 <sup>14</sup>

#### WEATHER RESISTANCE TEST

The following data are measured after curing using a 395nm wavelength LED surface light source with a cumulative energy of 5000mj/cm<sup>2</sup>

Base material	Test conditions	Peel strength rate (%)
PI/GLASS	85°C 85%RH (200H)	90
PI/GLASS	85°C 85%RH (500H)	85
PI/GLASS	-40°C-85°C (200H)	95
PI/GLASS	-40°C-85°C (500H)	82

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### STORAGE

Please store in a cool and dark place. Please close the bottle cap after opening it. Do not pour the unused glue back into the original bottle. The optimal storage temperature is 8-28°C. Too high or too low will affect the performance of the glue. The shelf life is 8 months.

The data contained in this bulletin is provided only as a guide for evaluation/consideration. These material characteristics are typical properties that are based on a limited number of samples tested in the laboratory. We cannot assume responsibility for results obtained by others over whose methods we have no control. It is the user's responsibility to determine suitability for the user's purpose of any product or method. We recommend that each prospective user test his proposed application before repetitive use, using this data as a guide.