

## UV5100

### Photo curing adhesive for glass and plastic bonding

UV5100 is a photo-curing adhesive. This resin has good adhesion strength after the environmental test experiments. Additionally, this product can cure rapidly under the visible light and is suitable for bonding glass and plastics.

#### FEATURE

- 1. This resin has excellent toughness, good shock resistance and thermal shock resistance.
- 2. This product has good transparent properties, weather and age resistance. It exhibits good yellowing resistance after curing by light.
- 3. This resin is well suited for glass and plastic bonding.
- 4. This product complies to the 20 11 / 6 5 E U RoHS regulations

#### TYPICAL UNCURED PROPERTIES

Properties	UV5100
Appearance	Liquid
Color	Colorless
Viscosity *25°C, cps	6.500~ 9.000 S14, 50 rpm
Thixotropic Index	No
Specific Gravity	1.062
Solvent content, %	0
Heavy metal content, %	0

#### TYPICAL CURING PROPERTIES

Properties	UV5100
Recommended Wave-length, nm	310~365
Minimum Light Intensity, mW/cm <sup>2</sup>	>50
Minimum Light Energy mJ/cm <sup>2</sup>	1000~2000

#### DIRECTION OF USE

1. Clean the contact surface until it is free of dirt, grease or mold release. Generally, a simple solvent wipe is sufficient.
2. Real curing time depends on various factors, such as part geometry, materials to be bonded, bond-line thickness and efficiency of the UV light. Confirm the real curing time and conditions with actual production parts and equipment

3. Please standardize the UV lamp intensity and illumination. Over-exposure will not affect the product quality; however, under-exposure will severely change the resin properties. When under-exposure, the resin may have lower reaction rate and may not pass the environmental test experiments.
4. This product may cause skin irritation to sensitive personnel.

#### TYPICAL CURED PROPERTIES

Properties	UV5100
Durometer Hardness, Shore D	60
Working Temperature, °C	-20 to 80

#### STORAGE AND SHELF LIFE

The container should be stored in cool and dark place. The resin and hardener will become yellow under the sunlight. Replace the lid immediately after use. Keep without any possibility of wet when not using. Shelf life of this product is six months when stored below 14~34°C in original, unopened containers.

#### CAUTION

Some findings indicate a lack of potential for carcinogenicity with the compositions of this product by long term recurrent application to the skin. However, contact with skin is likely to produce mild transient reddening. It is important to remove adhesive from skin with soap and water thoroughly. DO NOT use solvents for cleaning hands. This resin is of moderate acute toxicity by swallowing. If swallowed, call a physician. Avoid contact with eyes. In case of contact, flush with water for at least 15 minutes and get medical attention immediately. For specific information on this product, consult the Material Safety Data Sheet.