

## Removable Photo-curing Adhesive

### Product Description

FR313-9 is removable photo-curing adhesive. It is used for protecting some materials temporarily. When removing this product, pull up one side of the cured resin, it is easy to remove all the cured resin from the materials.

### Typical Uncured Properties

Appearance	FR313-9
Color	Viscous liquid
Viscosity* 25°C, S14 100rpm, cps	Blue
Viscosity* 25°C, S14 10rpm, cps	6,800~10,500
Thixotropic Index	26,000~40,000
Certificate	> 2
Application	RoHS
	Dispensing

\*This value is for reference. Please refer to COA for the actual value.

### Typical Curing Properties\*

Recommended Wavelength, nm	310~365
Minimum Light Intensity, mW/cm <sup>2</sup>	> 50
Minimum Light Energy, mJ/cm <sup>2</sup>	1,500~2,000

\*The minimum light energy is for reference.

### Direction of Use

1. It should be applied to a clean surface which is free of dirt, grease or mold release. In many cases, a simple solvent wipe is sufficient.
2. Apply adhesive to one or both substrates to be bonded. The contact surface should be completely flattened until the resin cured.
3. Cure time on the really part will depend upon factors such as part geometry, materials to be bonded, bondline thickness and efficiency of the UV light. Cure schedule should be confirmed with actual production parts and equipment.
4. Please standardize the UV lamp intensity and illumination. Over exposure will not affect the resin properties, but the resin properties will be changed if there is not enough exposure. The resin may have lower reaction rate and may not pass the environmental test experiments.
5. This product may cause skin irritation to sensitive personnel.

### Typical Cured Properties

Durometer Hardness ASTM D2240-03, Shore D	40
Durometer Hardness ASTM D2240-03, Shore A	80
Breaking Strength, MPa	4
Elongation, %	172

### Storage and Shelf Life

This product should be kept without any possibility of light exposure. Replace the lid immediately after use. Shelf life of this product is six months when stored in dark place 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 product 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.