



Photo-curing Adhesive for Plastics and Metals Bonding

Product Description

FK8441 is photo-curing adhesive which is especially developed for PC, ABS, PC electroplating bonding to metals, such as aluminum, iron and stainless steels. This product offers properties of high clear transparency and rapid cure that make it greatly suited for fast electronics industry encapsulation.

Features

1. This product is suited for various plastics bonding.
2. This product offers flexibility and can absorb fracture energy.
3. This product can be applied on encapsulation.
4. This product complies to the 2011/65/EU RoHS regulations.

Typical Uncured Properties

Appearance	FK8441
Color	Liquid
Viscosity* 25°C, S14 5rpm, cps	Opaque
Solvent Content, %	30,000~44,000
	0

*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 ²	> 50
Minimum Light Energy, mJ/cm ²	> 1,000

*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. For maximum bonding strength apply adhesive evenly to both surfaces to be jointed.
3. Cure time on the real part will depend on 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	70
Durometer Hardness ASTM D2240-03, Shore A	97

Storage and Shelf Life

This product should be stored in cool and dark place. This product should be kept without any possibility of sunlight or ultraviolet exposure. Replace the lid immediately after use. Shelf life of this product is 1 year when stored at 14~34°C in the original and 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.