



Photo-curing Adhesive for Plastic and Metal Bonding

Product Description

PUV2412-B is photo-curing adhesive for plastic and metal bonding, such as iron, aluminum, stainless steel and alloy. This product is able cure rapidly under the UV light and exhibit excellent adhesion strength for plastics and metals.

Features

1. This resin has good toughness, shock resistance, and thermal shock resistance after curing under the UV light.
2. This product exhibits good adhesion strength for plastics and metals.
3. This product complies to the 2011/ 65/EU RoHS regulations.

Typical Uncured Properties

Appearance	PUV2412-B
Color	Liquid
Viscosity 25°C, S14 100rpm, cps	Blue
Viscosity 25°C, S14 100rpm, cps	6,000~12,000
Specific Gravity	15,000~25,000
Solvent Content, %	1.082
Heavy Metal Content, %	0
	0

Typical Curing Properties

Recommended Wavelength, nm	310~365
Minimum Light Intensity, mW/cm ²	> 50
Minimum Light Energy, mJ/cm ²	1,500~3,000

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, bondline 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 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.
4. This product may cause skin irritation to sensitive personnel.

Typical Cured Properties

Durometer Hardness, Shore D	93
Working Temperature Range, °C	-40~120

Storage and Shelf Life

The product should be stored in cool and dark place. Avoid to contacting with sunlight or ultraviolet. Replace the lid immediately to keep away from any possibility of light exposure after using. Shelf life of this product is six months when stored in room temperature from 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.