



Photo-curing Adhesive for Camera Lens Bonding

Product Description

GP424-7 is a photo-curing adhesive designed for camera lens bonding. 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 among plastics.

Features

1. This resin has excellent toughness, good shock resistance and thermal shock resistance.
2. This product has good weather and age resistance.
3. This resin is well suited for plastic bonding.
4. This product complies to the 2011/ 65/EU RoHS regulations.

Typical Uncured Properties

	GP424-7
Appearance	Liquid
Color	Opaque
Viscosity 25°C, S14 100rpm, cps	3,000~5,000
Viscosity 25°C, S14 10rpm, cps	12,000~18,000
Thixotropic Index	> 3.5
Specific Gravity	1.084
Refractive Index n_D^{20}	1.486
Solvent Content, %	0
Heavy Metal Content, %	0

Typical Curing Properties

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

*Avoid the resin exposure to light.

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. For maximum bonding strength, please apply the adhesive evenly onto both surfaces that wish to be jointed.
3. 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.
4. This product may cause skin irritation to sensitive personnel.

Typical Cured Properties

Glass Transition Temp.(MDSC), °C	24
Durometer Hardness, Shore D	61±2
Water Absorption Ratio (25°C /24hr), %	2.83
Working Temperature Range, °C	-20~100

Storage and Shelf Life

This product should avoid any direct light exposure. Replace the lid immediately after use to prevent possible light exposure. Shelf life of this product is one year when stored under shades, room temperature (14~34°C), and in sealed 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.