

Photo-Curing Adhesive for Plastic Bonding

Product Description

GN067 is a photo-curing adhesive designed for general plastic (including ABS, PC, PVC, acrylic, etc.) bonding. This resin is colorless and transparent when applied in thin film bonding. Additionally, this adhesive is able to cure rapidly with materials under visible light. In many applications, cured product shows a significant increase in adhesion strength when comparing with original materials, such as anti-ultraviolet acrylic and PC surfaces. This resin proves itself to be a considerably reliable photo-curing adhesive. In case of plastic substrates with colors, this product is still functional as long as the substrates are slightly transparent. However, it is recommended to increase the irradiation time to ensure the best performance.

Features

1. This product has good toughness, shock resistance, and thermal shock resistance.
2. This resin is able to react with plastics and exhibit high adhesion strength.
3. This product is suitable for different plastic materials and it can solve lots of problems in the plastic bonding.
4. This product complies to the 2011/65/EU RoHS regulations.

Typical Uncured Properties

	GN067
Appearance	Liquid
Color	Colorless
Viscosity 25°C, S14 100rpm, cps	4,000~6,000
Specific Gravity	1.101
Solvent Content, %	0
Heavy Metal Content, %	0

Typical Curing Properties

Recommended Wavelength, nm	310~436
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 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

Durometer Hardness, Shore D	61±2
Water Absorption Ratio (7days), %	2.8
Boiling Test 100°C/24hr	Pass
Working Temperature Range, °C	-40~100

Specimen laminating method:



Storage and Shelf Life

The container should be stored in cool and dark place. Avoid to contacting with high temperature, moisture, or atmosphere. Put the cover on immediately to keep away from any possibility of illumination after use. Shelf life of this product is one year 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, direct contact with the skin is likely to produce mild transient reddening and allergic reaction. If contacted directly, remove the 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, contact the hospital immediately. Avoid any 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.