



Photo-Curing Adhesive for PET Plastic Bonding

Product Description

GN440 is a photo-curing adhesive designed for plastic (including ABS, HIPS, PS, PC, PVC, PE and acrylic) bonding. This resin is colorless and transparent in thin film bonding. Under either UV or visible lights, this adhesive is able to cure rapidly and especially for the anti-ultraviolet acrylic, PC etc.

Features

1. This product has good toughness, shock resistance and thermal shock resistance.
2. This resin is able to bonding with plastics and exhibit high adhesion strength.
3. This product is no carcinogen and volatile materials, it is very safe.
4. This product complies to the 2011/65/EU RoHS regulations.

Typical Uncured Properties

Appearance	GN440
Color	Liquid
Viscosity 25°C, S14 20rpm, cps	Light yellow
Refractive Index n_D	4,000~6,000
Solid Content, %	1.4914
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	1,500~2,000

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

Glass Transition Temp.(MDSC), °C	18
Durometer Hardness, Shore A	45

Storage and Shelf Life

This resin should be kept without any possibility of moisture and heat 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, 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.