

UV 367

UV Epoxy Adhesive

Description

UV 367 is a fast cure, low viscosity UV-curable epoxy system. The cured material has excellent flexibility, good toughness and good adhesion to a variety of substrates including metals and plastics. It has no color, low odor, and low skin and eye irritation potential. It does not contain volatiles and is very suitable for electronic applications. It is not inhibited by oxygen during UV cure, has low shrinkage, high gloss and good resistance to yellowing.

Applications

- UV curable adhesive for plastics and metals.

Guidelines for Use

- Thaw the epoxy to room temperature (25°C) before use.
- Dispense the epoxy by using a syringe.
- Wipe off any excess uncured adhesive with a piece of dry cloth or tissue. Further cleaning may be achieved with tissue dabbed with isopropanol alcohol (IPA).
- Expose the epoxy to long UV wavelength light in the 320-380 nm range at 1000 mW/cm² for 3 seconds.
- If necessary, ultimate properties may be obtained faster by additional curing of the epoxy in a convection oven at 60°C or higher for 30 minutes.

Properties

Property	Test Method	Unit	Typical Value
Chemical type			Epoxy
Appearance	Pen 10		Clear liquid
Mix ratio, by weight			One component
Shelf life, -20°C	Pen 26	Month	6
Pot life, 25°C	Pen 57	Week	1
Viscosity, Brookfield RVT, 25°C	Pen 11	cP	740
Hardness, UV cure	Pen 29	Shore D	68
Tensile strength	Pen 41	kgcm ⁻²	504
Elongation at Break	Pen 41	%	7
Young's modulus	Pen 41	kgcm ⁻²	12,712
Specific gravity	Pen 14		1.22
Lap Shear Strength, PC to PC		kgf	36
CTE 1		ppm/K	54
CTE 2		ppm/K	158
Glass Transition Temperature		oC	54
Storage Modulus 30°C		MPa	2550
Moisture Absorption (216 hours), 85°C/85% RH		%	0.50

Recommended Cure

UV (mW/cm ²)	Cure time
1000	3 sec

Storage

Tightly close original container of unused product. Store below -20°C. Storing at lower temperatures down to -40°C may prolong shelf life beyond 6 months. However it may take longer time to thaw the product.

Packaging

- 30ml Black EFD Syringe
- 500g Black Plastic Bottle

Environment, Health & Safety

This product is RoHS compliant. It does not contain any known carcinogenic, mutagenic or teratogenic components.

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