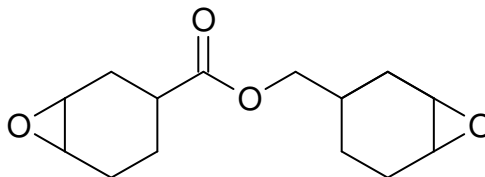


UVACURE[®] 1550

Standard Grade Cycloaliphatic Diepoxide



INTRODUCTION

UVACURE 1550 is a standard grade cycloaliphatic diepoxide that undergoes rapid polymerization when exposed to UV light in the presence of a photoinitiator that generates a cationic catalyst. Thermally stable onium salt photoinitiators are used to induce the cationic polymerization on exposure to UV light. Formulations containing UVACURE 1550, along with other epoxide resins, polyol modifiers, or vinyl ethers, can provide a range of cured film properties. Coatings containing UVACURE 1550 are generally tough, solvent resistant, and exhibit good adhesion to a variety of substrates, including metals and plastics.

PERFORMANCE HIGHLIGHTS

UVACURE 1550 is characterized by:

- Light color
- Low viscosity
- Low odor
- Low skin and eye irritation potential

UV cured products containing UVACURE 1550 are generally characterized by the following performance properties:

- No oxygen inhibition for UV cure
- Low shrinkage on curing
- Excellent adhesion to metals and plastics
- High gloss
- Resistance to yellowing

The actual properties of UV/EB cured products also depend on the selection of other formulation components such as coreactants, additives and photoinitiators.

SUGGESTED APPLICATIONS

UV cured coatings formulated with UVACURE 1550 can be used for:

- Metal coatings
- Overprint varnishes
- Plastic coatings

SPECIFICATIONS

	VALUE
Color, Pt-Co scale, max.	100
Viscosity at 25°C, cP	350-450
Weight per epoxide	131-143

TYPICAL PHYSICAL PROPERTIES

Density, g/ml at 25°C	1.17
Functionality, theoretical	2
Refractive index, n _D at 20°C	1.4984

CHEMICAL ABSTRACT SERVICE NUMBER

2386-87-0

(3,4-Epoxycyclohexane)methyl 3,4-epoxycyclohexylcarboxylate

STORAGE AND HANDLING

Before using UVACURE 1550, consult the **Material Safety Data Sheet** for additional information on hazards, handling procedures, and recommended protective equipment.

The recommended storage temperature for UVACURE 1550 is 4°C to 40°C (39°F to 104°F). Care should be taken not to expose the product to high temperature conditions, direct sunlight, ignition sources, oxidizing agents, alkalis or acids. This might cause uncontrollable polymerization of the product with the generation of heat. Storage and handling should be in stainless steel, amber glass, amber polyethylene or baked phenolic lined containers.

PRECAUTIONS

Avoid contact with eyes, skin and clothing. Direct contact with this material may cause mild eye and skin irritation. Repeated or prolonged dermal contact may cause allergic skin reactions. Wash thoroughly after handling. Use with adequate ventilation. Keep container closed.

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