

# Eversorb® EP4

## An effective light stabilizer for epoxy

### Introduction

Eversorb® EP4 is used with amine type of curing agents in epoxy systems. It's especially suitable for epoxy flooring application.

Eversorb® EP4 protects epoxy from degradation due to processing and light exposure, especially the discoloration from sunlight.

### Physical Properties

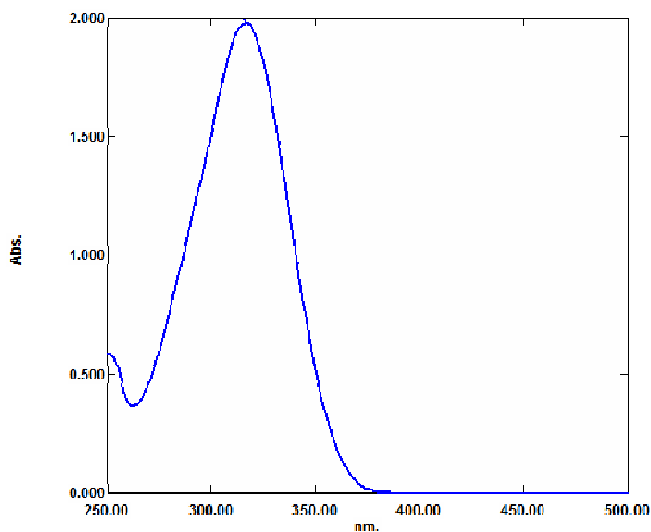
#### Appearance

Liquid form: Clear, slight yellow liquid  
(Viscosity : ~9000cp / 30°C)

#### Melting Point

26-28°C

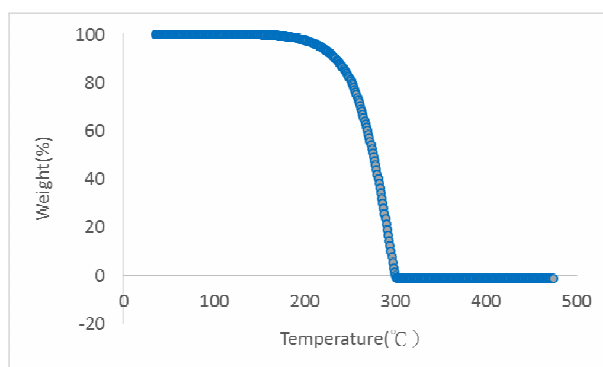
UV-Vis. Spectrum  $\lambda_{\text{max.}}=316\text{nm}$  (20ppm in THF)



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## TGA scans

5% weight loss: 228°C (heating rate 20°C/min in air)



## Advantages

Excellent compatibility with epoxy A/B offering homogeneous distribution during processing.

High resistance to UV degradation.

It is suitable for the amine cured EPOXY and does not affect initial color of the system.

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## Application

Eversorb® EP4 can be used in amine-based epoxy systems. In general, it is recommended to be used at 0.5 to 3.0wt% based on epoxy (A+B).

## UV-resistant test

USE Epoxy:

A-PART:CHANG CHUN GROUP 188

B-PART:YUN TEH INDUSTRIAL 905-3SH-1 (Modified Cyclo-aliphatic amine)

A:B=2:1(wt%) 50°C thermal curing 24hrs

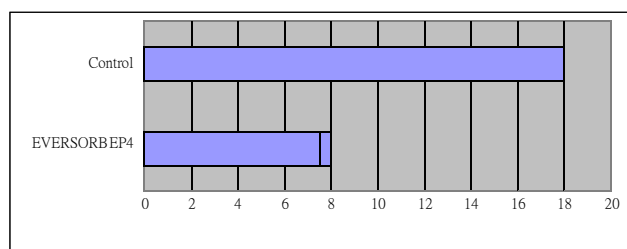
Sample: 3mm thick plastic block / epoxy

Exposure: QUV 340nm (70°C\*1.35W/m<sup>2</sup>)

Test Time: 48hrs

Additive: 0.5 wt% base on epoxy A+B (incorporated in hardener B)

Measurement: Delta yellowness index (ΔYI)



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## Toxicity & Safety

Eversorb® EP4 can be safely handled without any irritation to skin. (this statement needs to be further reviewed by the safety/regulatory manager of Everlight)

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## Storage Conditions

Eversorb® EP4 should be stored in a closed system and be kept in a dry, dark place without any light exposure.

It's advised to store this material above 28°C to maintain liquid form for the ease of handling.

In the case of solid formation, Eversorb® EP4 can be re-melted by heating at 50°C waterbath.

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The data presented in this leaflet are in accordance with the present state of our knowledge, but do not absolve the user from carefully checking all supplies immediately on receipt. We reserve the right to alter product constants within the scope of technical progress or new developments. The recommendations do not absolve the user from the obligation of investigating the possibility of infringement of third parties' rights and, if necessary, clarifying the position. Recommendations for use do not constitute a warranty, either express or implied, of the fitness or suitability of the products for a particular purpose. Seller makes no representation or warranty to express or implied including of merchantability or fitness for particular purpose.

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