

Eversorb[®] 12

Benzophenone type UV absorber for plastic applications

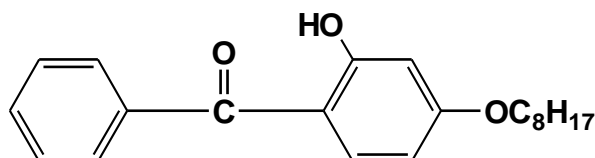
Introduction

Eversorb[®] 12 is a strong UV light absorber and has excellent compatibility with polymers, retards yellowing and mechanical property degradation of the polymers.

Chemical Name

2-hydroxy-4-n-octoxybenzophenone

Chemical Structure



(CAS number) 1843-05-6

Molecular Weight 326.4 g/mol

Physical Properties

Appearance

Slightly yellowish crystalline powder

Melting point

47.0~49.0°C

Solubility at 25°C (g/100g solvent)

Methyl alcohol :1

Ethyl alcohol : 3

Benzene : 72

Acetone :74

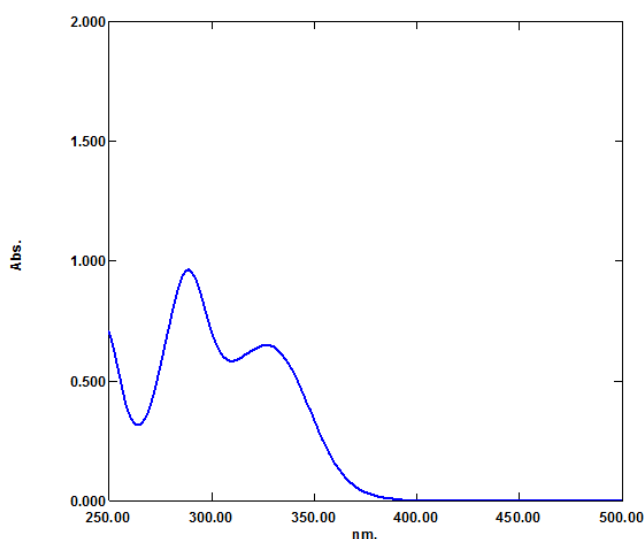
MEK:65

DOP:25

Water : < 0.01

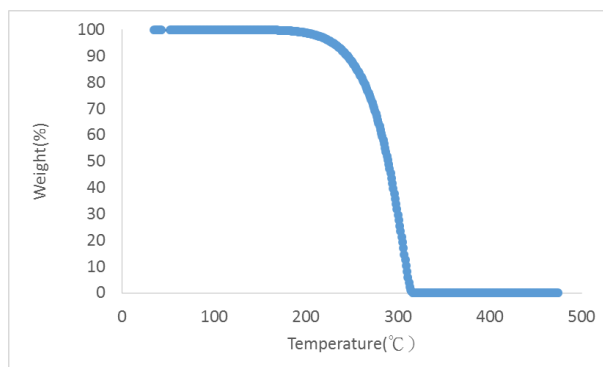
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UV-Vis. Spectrum $\lambda_{\text{max.}}=289\text{nm} \ \& \ 327\text{nm}$ (20ppm in THF)



TGA scans

5% weight loss: 255°C (Ramp: 10.0°C/min to 800°C)



Advantages

- Very strong UV absorptivity in the UV region.
- Very low vapor pressure prevents product from loss during processing.
- Very good compatibility with polymers.
- Very high heat resistance, without significant degradation or volatility at proper extrusion temperature.

Recommendation

Eversorb® 12 is particularly recommended for PE, PP, PVC and elastomers.

Handling & Safety

Personal equipment for protection is recommended. Excess exposure to the product should be avoided. Wash thoroughly after handling.

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Storage Conditions

Eversorb® 12 should be kept in a dry, dark place without any light exposure.

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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