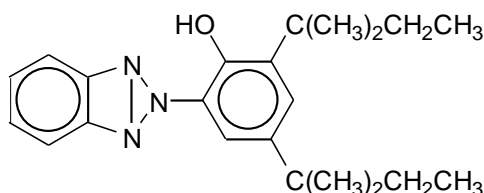


Ultraviolet light absorber for plastics, coatings and adhesives
UV ABSORBER
1. General

Chiguard® 328 belongs to the family of substituted benzotriazoles, which protect against ultraviolet radiation. Chiguard® 328 has high solubility that makes it particularly useful for stabilizing coatings, polyolefins, styrenics and urethanes. Compared to other Chitec's UV absorbers, Chiguard® 328 is more solvent soluble, has better resin compatibility and washfastness, is less volatile, and provides a degree of stabilization that is generally equal to or better than other members of the family.

2. Properties

Structure :



Chemical name : 2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol
 CAS No. : 25973-55-1
 Molecular formula : C₂₂H₂₉N₃O
 Molecular weight : 351.5

3. Physical Data

Appearance : Off-white crystalline powder
 Odor : Faint
 Boiling point : > 300 °C
 Melting point : 80 °C
 Specific gravity : 1.17 @20 °C

4. Solubility

(g in 100 ml solvent)

Ethyl acetate : 20
 Ethanol : 0.6
 Methyl ethyl ketone : 24
 Mineral spirits : 14
 Styrene : 34
 Water : Nil

5. Specification

Appearance : Pale yellow crystalline powder
 Assay : 99% min.
 Melting point : 79 - 84 °C
 Volatiles : 0.5% max.
 Transmittance : 97% min. @460 nm
 98% min. @500 nm

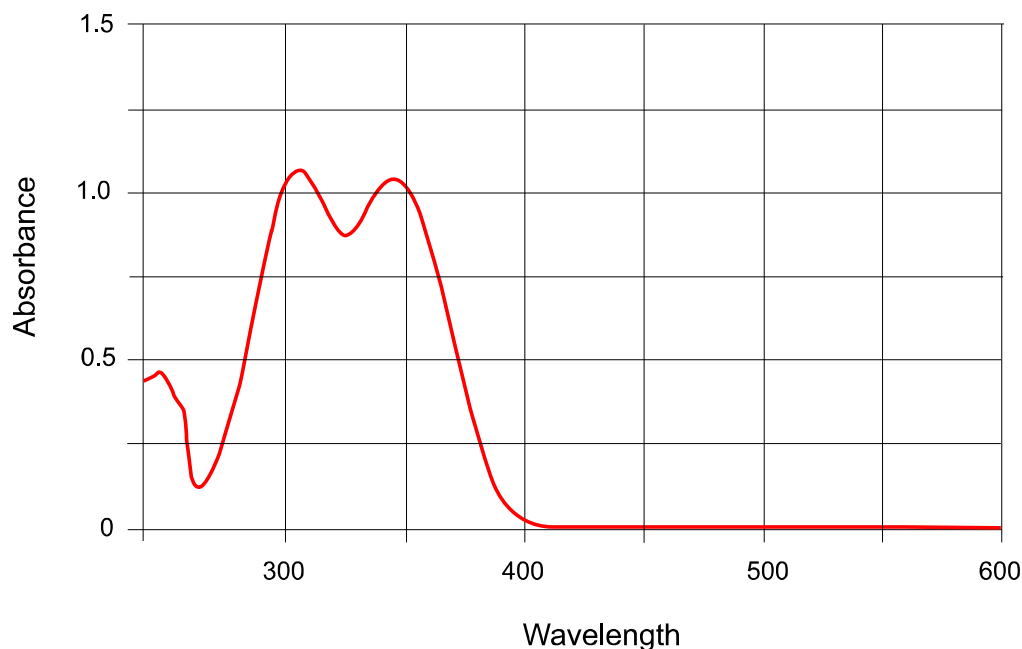
6. Application

Chiguard® 328 is most suitable for protective coatings due to its non-yellowing property during baking stage. Therefore, Chiguard® 328 has been widely used in the following area:

1. Thermoplastic urethane and related polyurethane.
2. Two-component epoxy.
3. Thermosetting acrylic enamel.
4. Photographic coating.

A percentage of 0.1% - 0.5% of Chiguard® 328 is recommended for protection. Light stability of polymer can be further enhanced by use of a phenolic antioxidant (e.g. DEOX10 and 76) and a hindered amine light stabilizer (e.g. Chiguard® 770 and 944) in the combination with Chiguard® 328.

7. UV Spectrum



8. Packaging

20 kg net/Carton box