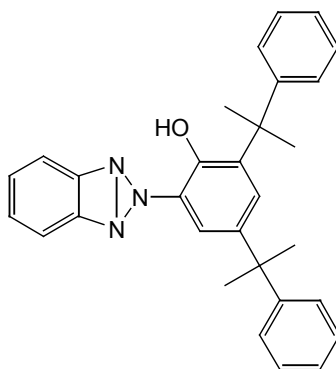


Ultraviolet light absorber for plastics, coatings and adhesives
UV ABSORBER
1. General

Chiguard® 234 belongs to the family of substituted benzotriazoles which protect against ultraviolet radiation. Compared to other Chitec's UV absorbers, Chiguard® 234 has lowest volatility which makes it especially useful for those applications involving high temperature processing.

2. Properties

Structure :



CAS Name	:	2-(2H-benzotriazol-2-yl)-4,6-bis(1-methyl-1-phenylethyl)phenol
CAS No.	:	70321-86-7
Molecular Formula	:	C ₃₀ H ₂₉ N ₃ O
Molecular Weight	:	447.6

3. Physical Data

Appearance	:	Slightly yellowish crystalline powder
Odor	:	Faint
Boiling Point	:	> 300 °C
Melting point	:	137 - 141 °C
Bulk density	:	0.67 @20 °C

4. Solubility

(g in 100 ml solvent)

Ethyl acetate	:	7
Toluene	:	25
Acetone	:	2
Hexane	:	1
Water	:	Nil

Ultraviolet light absorber for plastics, coatings and adhesives
UV ABSORBER
5. Specification

Appearance	:	Slightly yellowish crystalline powder
Assay	:	99% min.
Melting point	:	137 °C min.
Volatiles	:	0.5% max.
Clarity in toluene	:	Clear solution (5g/100ml)
Transmittance	:	95% min. @460 nm 97% min. @500 nm

6. Application

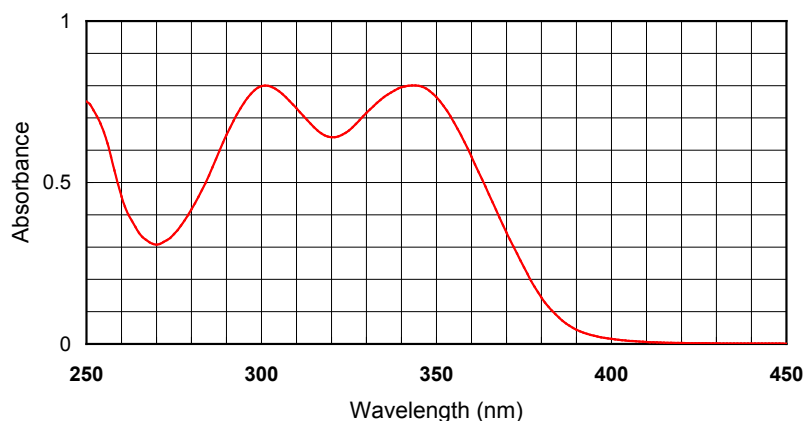
Chiguard® 234 is most suitable for polymer production where additive losses may occur during high temperature processing. Therefore, Chiguard® 234 has been widely used in the following area:

1. PET fiber and film
2. PC
3. POM
4. Nylon
5. TPE compounding

A percentage of 0.1% - 0.5% of Chiguard® 234 is recommended for protection. Light stability of polymer can be further enhanced by use of a phenolic antioxidant (e.g. DEOX 10 and 76) and a hindered amine light stabilizer (e.g. Chiguard® 770 and 944) in the combination with Chiguard® 234.

7. UV Spectrum

UV Spectrum of Chiguard 234


8. Storage

Must be stored in closed containers in dark dry conditions.

9. Packaging

25 kg net/fiber drum

10. HS Code

2933 6900