

Ouvin 1164

Chemical Name: 2-(4, 6-Bis-(2,4-dimethylphenyl)-1,3,5-triazin-2-yl)-5-(octyloxy)-phenol

Commercial Name: Ouvin 1164; UV 1164

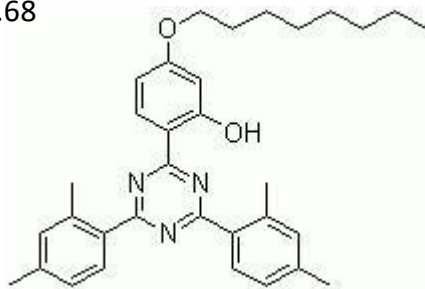
CAS NO.: 2725-22-6

EC Number: 412-440-4

Molecular Formula: C₃₃H₃₉N₃O₂

Molecular Weight: 509.68

Molecular Structure:



Characteristic:

Property	Standard
Toluene insoluble	≤ 0.5%
Specific gravity @ 20 °C (g/cm ³)	1.15
TGA 10 mg @ 10 °C/min under	Mass Loss
347 °C	1 %
365 °C	2 %
Solubility @ 20 °C	g/100g solvent
Butanol	3
Butylacetate	17
Methyl ethyl ketone	17
Xylene	25

Specification:

Items	Standard
Appearance:	White or light yellow powder
Purity (HPLC) :	≥98.5%
Melting point:	88~91 °C
Moisture:	≤0.3%
Absorbance (10% Toluene, 440nm):	≤0.3%
Ash:	≤0.1%

Description:

OUVIN 1164 is one of the most powerful and durable UV absorbers, it derives from a hydroxyphenyl-S-triazine. Its absorbance ability is higher in the B region of UV radiation where the absorbance goes from 290 to 350 nm, with maximum absorbance at 342 nm. This is the wavelength where most of the ethylene polymers start to decompose.

The benefits of OUVIN 1164 are high light stability, minimum contribution to the final colour, the low interaction with metallic ions (like catalysis residues) and very low volatility (if the volatility is high, there will be this problems: 1) it will limit processing technology; 2) the precipitation is serious; 3) the surface of the article will be defective; 4) influence the overall service life of the extruded die lip system))

OUVIN 1164 is the UV absorber of choice for greenhouses PE films used in very sunny areas. Moreover, OUVIN 1164 is the most used UV absorber to increase the lightfastness of many organic pigments and dyes, in the synthetic fibres (PP, PE, PET) mass dyeing.

Application:

Thanks to its UV-B absorption and its low volatility and the tendency to sublime, OUVIN 1164 is highly recommended to be used in engineering resins like PA, PC, PET, PBT, PMMA, POM, PE, PP, TPO, ASA, ABS and polymer blends and in general in all applications that require a wide surface area like fibres, laminating films, PE/EVA films for the greenhouses that must resist for 36-48 month of intensive exposition in very sunny areas, and for PC roof sheeting.

OUVIN 1164 is also a UV absorber of choice for powder coating (for the automotive and for coils) cured at high temperature over 185 °C and exposed to environmental attack. In the other fields, OUVIN 1164 also could be suitable for PU, Poly Keaton.

Dosage:

OUVIN 1164 needs to be added in a percentage from 0.15% to 5% (on finished product considering pigments and other additives).

Storage and transportation:

The chemical stability is good. It can be stored and transported according to the general chemical matter regulation.

Packing:

20kg per drum or as a requirement.