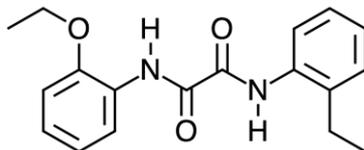


SABOSTAB® UV 312

Oxanilide UV absorber for plastics and adhesives & sealants

COMPOSITION

Chemical structure



Chemical name

N-(2-Ethoxyphenyl)-N'-(2-ethylphenyl)oxamide

CAS number

23949-66-8

TYPICAL PROPERTIES

Appearance	White to slightly pale-yellow powder
Molecular weight	312 g/mol
Melting range	124-128°C
Bulk density	400-440 kg/m ³
Particle size	D ₅₀ = 24 μ

FEATURES

- Provides excellent light stability in plastics and adhesives & sealants
- Very low color, almost colorless in transparent and clear applications
- Less discoloring than conventional UV absorbers, even in alkaline environments and in the presence of metal catalyst residues or metals
- Low volatility and excellent compatibility with polar plastics and adhesives & sealants, improve also polymer thermal stability
- Can be used in combination with optical brighteners without interference and in UV curing systems

APPLICATIONS

SABOSTAB® UV 312 is an effective UV Absorber light stabilizer in a broad range of plastic and adhesives applications. Plastic applications include polyamides, PVC (rigid and flexible), polyesters (thermoplastic and thermoset), polyurethanes, PMMA, acrylates, Styrenics (PS, ABS, SAN, ASA), UPES, epoxide resins, PC, adhesives and sealants and PP at low loading level. The product is an Oxanilide class UVA suitable for use in clear or transparent plastics, adhesives and sealants applications for appliances, building and construction, automotive, industrial, marine environments and architectural applications.

GUIDELINES FOR USE

Typical addition levels for SABOSTAB® UV 312 in plastics range from 0.1-1%, depending upon the application. The product shows a performance synergy with

Polymer Additives

other light stabilizers, especially HALS (like SABOSTAB® UV 70 or UV 119) and benzoates (like SABOSTAB® UV 37).

In adhesives and sealants, typical addition levels range from 0.5-3% in combination with 0.5-2% HALS (e.g. SABOSTAB® UV 65 or SABOSTAB® UV 119). The exact level to be used in any application should be determined in an appropriate testing program.

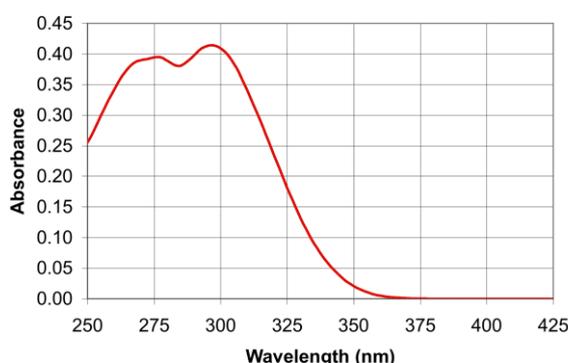
VOLATILITY (TGA weight loss temperatures, 20°C/min, in air)

1%	230°C
5%	260°C
10%	280°C

SOLUBILITY DATA (g/100 g solution, 20°C)

Acetone	4
Chloroform	20
Ethanol	0.3
Ethyl Acetate	3.5
n-Hexane	0.2
Methanol	0.4
Toluene	5.5
Water	<0.01

UV ABSORBANCE SPECTRUM (10 mg/L in chloroform)



PACKAGING

15 kg PE bag (360 kg per pallet), pallet type CP3

HANDLING & STORAGE

Please consult the Safety Data Sheet prior to handling or using this product.

If properly stored in a dry place at temperatures below 25°C, SABOSTAB® UV 312 remains within the specification limits for at least 3 years.

The information and data contained in this document have been set up to Sabo's best knowledge. Data and results are based on controlled or lab work and must be confirmed by the customer by testing for its intended conditions of use. Nothing herein shall be construed as a representation or warranty, express or implied, in particular not as to the merchantability, fitness for a particular purpose or any other matter with respect to the Sabo products. The Sabo products are manufactured for sale to customers for use in a wide range of applications. The customer remains responsible for determining whether or not the Sabo products purchased by the customer are suitable to the applications intended by the customer. Any advice or recommendation of use or application of any of the Sabo products shall be considered as non-binding and voluntary advice. Unless explicitly agreed otherwise between Sabo and the customer, Sabo shall not, under any circumstances, be liable for any incidental, indirect, special, consequential, exemplary or punitive damages as well as for damages based on loss of use, lost production, cost of capital, loss of goodwill, loss of contract, lost revenues, loss of profit or loss of business incurred, suffered or paid by the customer and all other persons.