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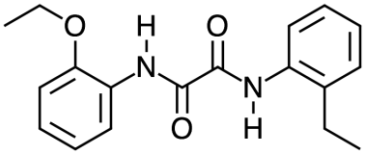
SABOSTAB® UV 312

Oxanilide UV absorber for plastics and adhesives & sealants

Polymer Additives

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

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.

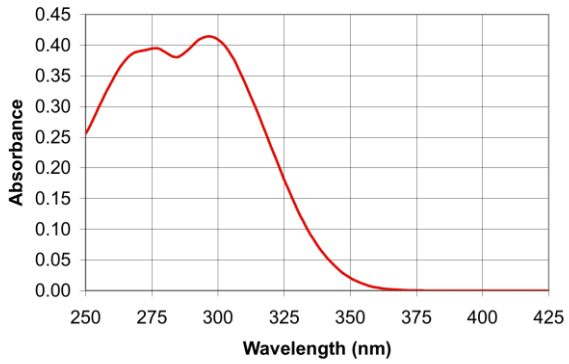
VOLATILITY (TGA weight loss temperatures, 20°C/min, in air)

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.