Technical Data Sheet

LeSORB® UV-531

Chemical name: 2-Hydroxy-4-n-octoxybenzophenone

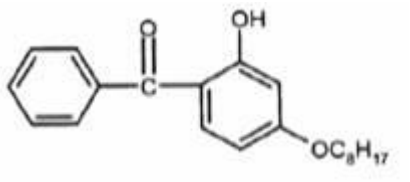
Introduction: LeSORB UV- 531 is an ultraviolet light absorber (UVA) of the benzophenone class, imparting good light stability for plastics and other organic polymers. Due to its highly effective broad UV absorption properties and excellent polymer compatibility, LeSORB UV- 531 offers maximum polymer protection and low color contribution, retards yellowing and loss of physical properties.

CAS NO: 1843-05-6

Empirical Formula: $C_{21}H_{26}O_3$

Molecular Weight: 326

Structure:



Physical Properties

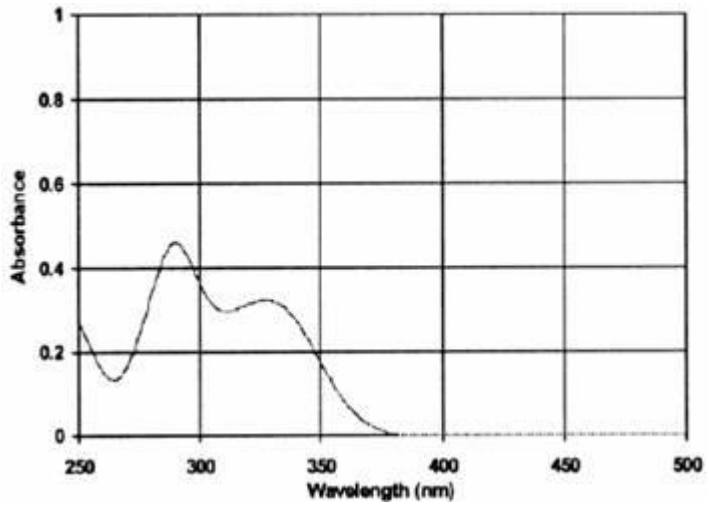
Items	Properties
Appearance	pale yellow needle crystal powder
Melting Range	47-49 °C
Assay	99% Min.
Volatile Matter	0.5% Max
Specific Gravity(20 °C)	1.16g/cm^3

Solubility At 20 ℃ (g/100ml solvent)

Solvent	Solubility
Acetone	43%

Benzene	72%
Chloroform	61%
Ethanol	3.5%
Ethyl Acetate	44%
n-Hexane	12%
Methanol	1.7%
MEK	65%
Methylene Chloride	67%
Toluene	>50%
Water	<0.01%

UV Absorption



Absorption Spectrum (10mg/l, Chloroform)

Performance & Usage

Ultraviolet light absorber LeSORB UV-531 is an efficient antioxidant with excellent performance. It has features such as light color, non-toxic, good compatibility, small mobility, and etc. It is widely used in PE, PVC, PP, PS, PC, organic glass, polypropylene fiber, vinyl acetate and other fields. Moreover, it can provide dry phenolic and alkyd varnishes, polyurethane, acrylic, epoxy and oher drying products, powder coating, polyurethane, rubber products with favorable light stability. Additive amount is 0.1%-0.5 percent.

Dosage

1.Polypropylene : 0.2-0.5wt% based on polymer weight

2.PVC:

Rigid PVC : 0.5wt% based on polymer weight

Plasticized PVC : 0.5-2 wt% based on polymer weight

3.Polyethylene : 0.2-0.5wt% based on polymer weight

Toxicity & Safety

This material is not intended for use in products for which prolonged contact with mucous membranes or abraded skin, or implantation within the human body is specially intended, unless the finished product has been tested in accordance with the Food and Drug Administration and/or other applicable safety testing requirements.

Storage

The product may be stored up to two years in a sealed container. Containers should be stored in a cool, dry area. Extended storage at elevated temperatures or exposure to direct heat or sunlight could reduce product life. Keep containers sealed when no in use.

Handling

In accordance with good industrial practice, handle with care and avoid unnecessary personal contact. Protect skin. Prevent contamination of the environment. Avoid dust formation and ignition sources.

Packing

Carton is lined with a plastic bag packaging: 20 or 25kg/ box. Also can be designed according to customer requirements.