

PowerSorb™ 3049 UV Absorber

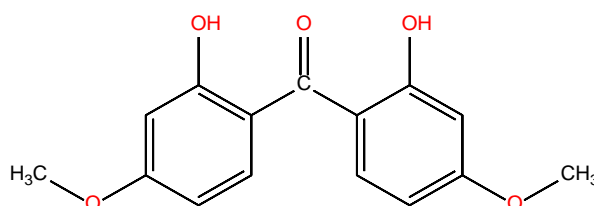
Introduction PowerSorb™ 3049 is an efficient UV absorber for polyester film, which it protects from premature damage, particularly under severe exposure conditions.

Chemical Name 2,2-Dihydroxy-4,4-dimethoxybenzophenone

CAS Number 131-54-4

EINECS Number 205-027-3

Chemical Structure



Chemical Formula C₁₅H₁₄O₅

Molecular Weight 274

Physical Properties

Appearance	Pale Yellow Powder
Density [25°C, g/cm ³]	34
Melting Point (°C)	129-139
Volatile (%)	Max.2.00
K Value	Min.49.00
Purity (%)	Min.94

Solubility

Solubility [20°C]	% w/w
Methanol	<1
Ethyl acetate	5
Methyl ethyl ketone	5
Toluene	5
Water	<0.01

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Benefits & Applications

The polyester film can be treated by applying a hot solution of PowerSorb™ 3049 in a polyhydric alcohol. The transmittance of film treated in this manner is greatly reduced for light of wavelengths less than 400 nm, thus allowing the film it to be used as a UV filter.

Other fields of application are:

- Allyl carbonate (spectacle lenses, 0.3 %)
- Rubber
- PUR furniture paints and varnishes (0.50 - 1.00%)
- Textile industry (as a light stabilizer that is taken up by the fibres in the dye bath).
- Photographic emulsions
- Acrylic resins, Alkyd resins, Epoxy resins, Phenolic resins
- Cellulose nitrate
- Fluorescent pigments
- PUR systems, Oil paints, Polymer dispersions

Handling & Storage

In accordance with good industrial practice, handle with care and avoid unnecessary personal contact. Avoid continuous or repetitive breathing of dust. Use only with adequate ventilation. Protect skin. Avoid dust formation and ignition sources.

This product may be stored up to one year 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 not in use.

For more detailed information please refer to the material safety data sheet.

Packing

PowerSorb™ 3049 is supplied in 20Kg Paper Bag, 20Kg PE Bag, 25Kg Carton Box, and 50Kg Fiber Drum.

Note

All information in the leaflet is based on our present knowledge and experience. We reserve the right to make any changes according to technological progress or further developments. Performance of the product described herein should be verified by testing.



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We disclaim liability for any incidental or consequential damages.