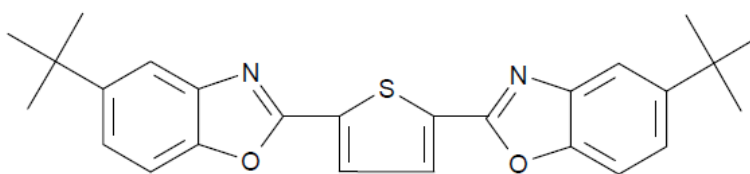


Tinopal® OB CO

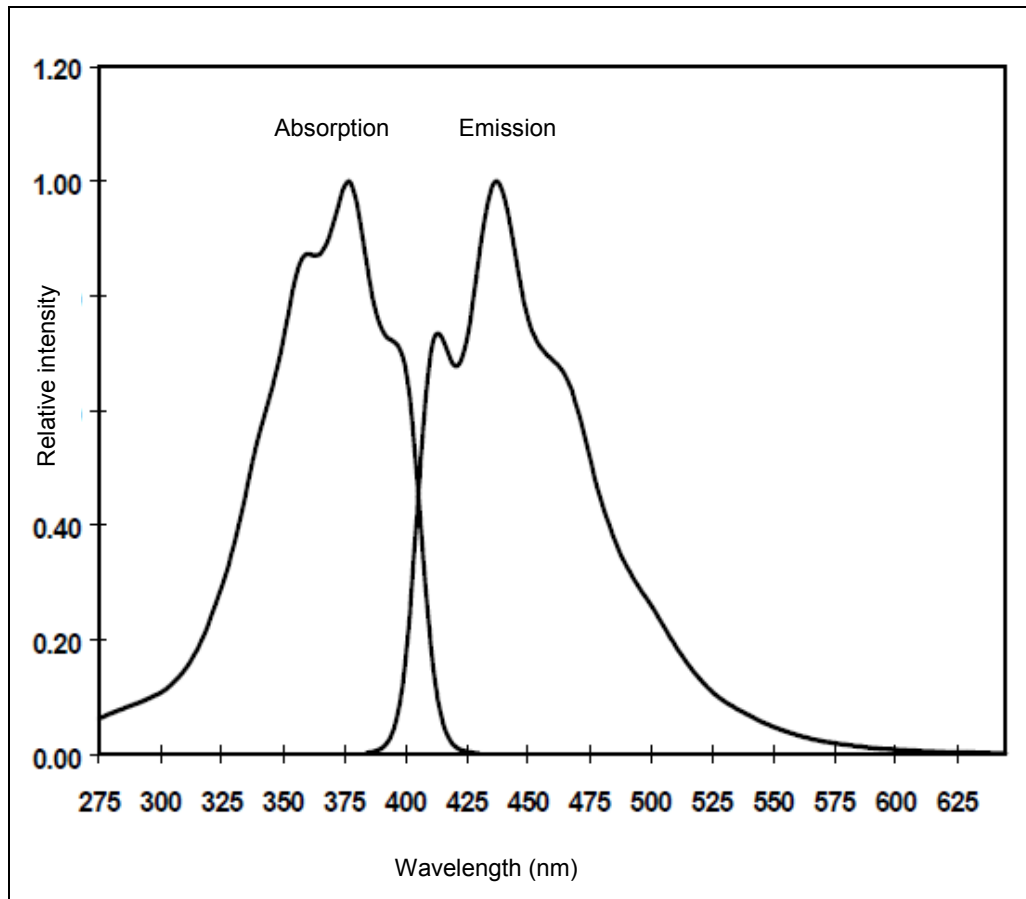
Product Description	Tinopal OB CO is a fluorescent optical brightener for coating, adhesive, and printing ink applications.
Key Features & Benefits	<ul style="list-style-type: none">- Brilliant bluish whitening effects- Good compatibility in a wide range of resins- Excellent heat resistance- High chemical stability- For Indoor use only
Chemical Composition	2,5-thiophenediylbis(5-tert-butyl-1,3-benzoxazole)



Properties

Typical Properties	Appearance	yellow powder
	CAS number	7128-64-5
	Molecular weight	430.6
	Density at 20°C (68°F)	~ 1.26
	Melting range	196 – 203 (385 – 397)
	<u>Solubility at 20°C (g/100 g solution)</u>	
	Acetone	0.5
	Chloroform	14
	Dimethyl formamide (DMF)	0.8
	Dioxane	2
	n-Hexane	0.2
	Methanol	0.1
	Methyl ethyl ketone	1.3
	Tricresyl phosphate	0.8
	Xylene	5
	Water	0.001

These typical values should not be interpreted as specifications.



Application

Tinopal OB CO is a fluorescent optical brightener that provides excellent heat resistance, high chemical stability, and brilliant bluish whitening effects with good compatibility in a wide range of resins for coating and printing ink applications.

Tinopal OB CO is recommended for applications such as:

- White and pastel tone paints where it intensifies the degree of whiteness
- Clear coats and overprint varnishes where it is used to mask the yellowish inherent color and to intensify the brilliance of white and colored base coats
- Primer and/or topcoats where it is used as a marker to identify voids and uneven coverage
- Black and blue printing inks to increase their deep tone
- Printing inks for quick identification, security and safeguard against forgeries (i.e. bank notes)
- Packaging inks as promotional tool or as tracer for packaging lines
- Manufacture of fluorescent pigments/dyestuffs to reinforce the brightness of certain shades, particularly blue ones
- Thermal dye diffusion paper to enhance paper whiteness
- Film base for photographic paper

If Tinopal OB CO is to be used in combination with a UV absorber, the absorption spectrum of the latter should leave an open window in the near UVA for the optical brightener.

Due to the intrinsic light fastness properties of optical brighteners, Tinopal OB CO is recommended for indoor use only.

Recommended Concentrations

The amount of Tinopal OB CO required for optimum performance should be determined in laboratory trials covering a concentration range and is dependent upon the desired brightening effect.

Application

Clear coats and overprint varnishes
White coatings
Marker in primers

Weight %

0.02 – 0.1% on binder solids
0.5 – 5% on pigment weight
2.0 – 4.0% on binder solids

Safety

General

The usual safety precautions when handling chemicals must be observed. These include the measures described in Federal, State, and Local health and safety regulations, thorough ventilation of the workplace, good skin care, and wearing of protective goggles.

Safety Data Sheet

All safety information is provided in the Safety Data Sheet for Tinopal OB CO.

Storage

Please refer to the "Handling and Storage of Polymer Dispersions" brochure.

Important

The descriptions, designs, and data contained herein are presented for your guidance only. Because there are many factors under your control which may affect processing or application/use it is necessary for you to make appropriate tests to determine whether the product is suitable for your particular purpose prior to use. **NO WARRANTIES OF ANY KIND, EITHER EXPRESS OR IMPLIED, INCLUDING WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, ARE MADE REGARDING PRODUCTS DESCRIBED OR DESIGNS, OR INFORMATION SET FORTH, OR THAT THE PRODUCTS, DESIGNS, OR DATA MAY BE USED WITHOUT INFRINGING THE INTELLECTUAL PROPERTY RIGHTS OF OTHERS. IN NO CASE SHALL THE DESCRIPTIONS, DATA OR DESIGNS PROVIDED BE PRESUMED TO BE A PART OF OUR TERMS AND CONDITIONS OF SALE.** Further, you expressly understand and agree that the descriptions, designs, and data furnished by BASF hereunder are given gratis and BASF assumes no obligation or liability for same or results obtained from use thereof, all such being given to you and accepted by you at your risk.

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