



OVITEX

Optical Brightener

Optical Brightener, Fluorescent Whitening Agent



Overview

OVITEX OB is a heat resistant, solvent soluble, chemically stable fluorescent whitener that increases the whiteness and provide brighter looking colors in plastics, coatings, inks, synthetic fibers, waxes, fats, and oils. It gives extraordinary whiteness to liquid plasticizer. It serves to offset the inherent yellowness of a polymer and to yield a whiter appearance. Optical brighteners function by a fluorescence process involving absorption of invisible UV light and emission of visible blue light. OVITEX OB is also useful as a fluorescent tracer in many applications.

- **MAXIMUM PURITY = MAXIMUM WHITENESS & BRIGHTNESS**
- **FINEST & SMALLEST PARTICLE SIZE = BETTER SOLUBILITY**

PROPERTIES

Appearance	Light greenish crystalline powder				
Ash	0.2% max.				
Chemistry	C ₂₆ H ₂₆ So ₂ N ₂ O ₂				
Weight Loss	0.5% max.				
Heavy Metal	Pb=100 ppm max. Cd= 100 ppm max.				
Melting Point	197~203° C				
Toxicity	Ld 50 > 10,000 mg (oral=rat)				
Light Fastness	It depends on the resin & its component				
	Polyvinyl chloride	4~7			
	Polyethylene	2~4			
	Polypropylen	1~4			
	Cellulose acetate	5~7			
	Polystyrene	2~5			
	Acrylic resin Lacquers	4~5			
	Alkyd-melamine Lacquers	4~5			
	Polyamide	3~5			
	Linear Polyester	7			
SOLUBILITY -at room temperature g/1	acetone	ethanol	methanol	n-Hexane	toluene
	0.5	0.1	0.05	0.2	5.3
	dioxane	xylene	water	methyl ethyl ketone	
	2.9	5.0	<0.01	1.3	
	THF	white spirit		monochlorobenzene	
	5.5	1.0		10.2	
	carbon tetrachloride		trichloro-benzene		
5.9		8.4			
Thermal Stability	under nitrogen stable at 300° C for 8 hours		under atmosphere at 200° C for 8 hours		
Sublimation Stability	not sublimated even at 350° C				
Food Packaging	applicable, approved components by FDA				

DIRECTIONS FOR USE

Resin	Content (wt%)	Remarks
PVC	0.01~0.05	White Pigmented
	0.0001~0.001	Transparent Sheet
Polystyrene	0.001~0.05	White Pigmented
	0.0001~0.001	Transparent
ABS	0.02~0.1	
Polyolefins	0.005~0.05	White Pigmented
	0.0005~0.001	Unpigmented
Clear Lacquers	0.05~0.5	Thickness=20 Um
	0.005~0.05	Thickness=200 Um
Fibres	0.01~0.1	Delustered
Acetate, triacetate	0.005~0.05	Bright

Application

Polyvinyl Chloride Polystyrene ABS Polyolefins
Clear Lacquers & Plasticizers
PVC FIBRE & PRINTING INKS

Packing

Standard Packing: 10 Kg. actual in PE drum or fibre drum

Smaller Packing: 1 Kg or 5 Kg PE jar
(but they will bring cost increase)

Storage

Avoid excessive heat, direct sun light and moisture.