

OB1 Technical Data Sheet

Product Characteristics

OB-1 is a heat resistant and chemically stable fluorescent whitener that increases whiteness and provides brighter looking colors. It is used to offset the yellowness of a polymer and to yield a whiter appearance. Optical brighteners create brilliance by a fluorescence process involving absorption of invisible UV light and emission of visible blue light. The emitted blue light will reduce or control the yellowness of a material and provide the bright appearance.

Applications

- Plastics and Polymer (Polypropylene, hard PVC, ABS, EVA, Polystyrene, etc.)
- Paint
- Synthetic fibers of polyester, nylon and polypropylene
- High temperature engineering plastics such as Polycarbonates
- Inks

Specifications & Properties

➤ Appearance:	Yellowish, greenish crystalline Powder
➤ Molecular Weight:	414.4
➤ Melting Point:	≥ 359 °C
➤ Decomposition Temperature:	> 400 °C
➤ Purity:	$\geq 99.0\%$
➤ Specific Gravity (20°C):	1.39-1.5 g/cm ³
➤ CAS No.:	1533-45-5

Usage Mode

Recommended quantity: brightening agents of OB-1 in every 1000kg raw material:

1. Of 75-200g in EVA, PE, Polypropylene, nylon, polycarbonate, and so on.
2. Of 75-300g in terylene fiber.

Properties

- High brightening intensity and strong fluorescence
- Carries good resistance to high temperature
- Brilliant, neutral white cast that compensates for yellowing
- Low volatility and excellent heat resistant
- In combination with dyes, produces particularly bright shades
- Good light fastness

Packing

OB-1 is available in powder form in a 25 kg fiber drum, net weight, with an inner PE liner.

Product Storage

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.

Safety Precautions

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. Because of wide range of such potential uses, is not able to recommend this material as safe and effective for such uses and assumes no liability for any such uses. Read and understand the Material Safety Data Sheet before using or handling this product.

Attentions

1. The product data is for reference only. If you had any technical or usage problems, please call us.
2. The oral or written technical suggestions offered by our company are all sincere. But the consumers have the responsibility to experiment with our products to justify whether they are suitable for the formulated craftwork and usage; as the craftwork condition for using the products is beyond our control, the consumers will take the whole responsibility.