TECHNICAL DATA SHEET

# TRINOX OB

## OPTICAL BRIGHTNER

TRINOX OB is a high molecular weight optical brightener of the thiophenediyl benzoxazole class, suitable for the optical brightener of polymers at all stage of processing.

- **Typical Properties**

Chemical Name: 2,2-(2,5-Thiophenediyl) Bis[5-(1,1-dimethylethy)] Benzoxazole
Molecular Formula: C27H27O2N2S
Molecular Weight: 443
CAS No.: 7128-64-5
C.I.: 184

- **Specifications:**

Appearance: Yellowish or yellowish green crystal powder
Assay: 99% min.
Melting Point: 196-203?
Ash: 0.3% max.
Volatile Content: 0.3%max.
Particle size: 200 meshes
Max. Absorption Wavelength: 375nm(in ethanol)

- **Properties:**

1. TRINOX OB is highly effective in polymer substrates such as e.g. PE, PC, PVC, PS, ABS, and PP, it is also used in adhesive and other organic substrates.
2. Main applications include fibers, molded articles, films & sheets. They can also can be used in clear lacquers, pigmented lacquers, paints, printing ink and synthetic leather. It can produce brilliant brightness with dyestuffs, which is very efficient in directions for multicolor.
3. Optical Brightener TRINOX OB can be used as a tracer in a variety of applications.
4. TRINOX OB features excellent resistance to heat, exceptional whitening properties, good light fastness and low volatility. It is readily soluble in organic solvents and features good compatibility in various substrates. The product is especially suitable for applications such as films and fiber.
5. TRINOX OB enhances the whiteness of the substrate. In combination with dyes, the product produces particularly bright shades. Its excellent heat resistance renders TRINOX OB suitable for all relevant processing conditions. It is suitable for packaging applications.

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- **Application (in each 100kg polymer):**

**PVC:** White 0.01-0.05 (10g-50g)
Transparent 0.0001-0.001% (0.1g-1g)
**PS:** White 0.001% (1g)
Transparent 0.0001-0.001% (0.1g-1g)
**ABS:** Primitive color 0.01-0.05% (10g-50g)
(effectively eliminate the intrinsic yellow color in ABS)
White 0.01-0.05% (10g-50g)
**PE, PP:** Achromaticity 0.0005-0.001% (0.5g-1g)
White 0.005-0.05% (5g-50g)
**Other Plastics:** Refer to the directions given above.

TRINOX OB when used in PMMA polymerization, care should be taken that the polymerization is conducted to full completion, since interaction with residual monomer may cause discoloration in the final application.

- **Attention:**

To get best effect please mix thoroughly. OB concentrated MB can be even better mixed.

- **Safety and Storage:**

Stock as normal chemicals. Wear protective goggles and gloves while applying. Avoid direct contact with skin and eyes. Clean with soap if skin is contaminated.

- **Packing:**

25 kg Fibre Drum With PE Liner.



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