



Chemical Village CO., LTD.

20/2 (B4), Teparak Rd, Bangplee Yai, Bangplee,
Samutprakarn, Thailand 10540

Tel : 66 2757 5290 **Fax :** 66 2757 5292

email : chemicalvillage@hotmail.com **website :** www.chemicalvillage.com

OPTICAL BRIGHTENING AGENT

ส่วนใหญ่จะใช้ในการฟอกสีของเส้นใยสังเคราะห์และพลาสติกรวมทั้งในการฟอกสีของพอลิเมอร์ในลอน

OPTICAL BRIGHTENING AGENT OB

Product Cate	Optical Brightening Agent For Plastic
Product Name	Optical Brightening Agent OB
Chemical Name	2,5'-Bis[2-(5-tert-butyl-2-benzoxazolyl) thiophene
CAS No.	7128-64-5
C.I. No.	184
Molecular Formula	$C_{26}H_{26}N_2O_2$
Molecular Weight	430
Technical Index	Appearance: slight greenish yellow powder Melting Point:200-202°C Purity:≥99%
Uses	Mainly be used in whitening of thermoplastic, polyvinyl chloride(PVC), polypropylene(PP), polyester fiber, paint and ink, etc.
Precaution	The information of our products is for reference only. We are not responsible for any unexpected results or patent dispute caused by it.



Chemical Village CO., LTD.

20/2 (B4), Teparak Rd, Bangplee Yai, Bangplee,
Samutprakarn, Thailand 10540

Tel : 66 2757 5290 **Fax :** 66 2757 5292

email : chemicalvillage@hotmail.com **website :** www.chemicalvillage.com

OPTICAL BRIGHTENING AGENT OB-1

Product Cate	Optical Brightening Agent For Plastic
Product Name	Optical Brightening Agent OB-1
Chemical Name	2.2'-(4.4'-diphenol vinyl) dibenzoxazol
CAS No.	1533-45-5
C.I. No.	393
Molecular Formula	$C_{28}H_{18}N_2O_2$
Molecular Weight	414
Technical Index	Appearance: yellowish green powder Melting Point:357~359°C Purity:≥99%
Uses	Mainly be used in whitening of polyester and plastic, as well in whitening of Nylon during polymerization.
Precaution	The information of our products is for reference only. We are not responsible for any unexpected results or patent dispute caused by it.



Chemical Village CO., LTD.

20/2 (B4), Tearak Rd, Bangplee Yai, Bangplee,
Samutprakarn, Thailand 10540

Tel : 66 2757 5290 **Fax :** 66 2757 5292

email : chemicalvillage@hotmail.com **website :** www.chemicalvillage.com

OPTICAL BRIGHTENING AGENT OB-3

Technical data

Appearance	yellow-green powder
Purity	≥97%
Volatile	≤0.5%
Melting point	≥350°C

Applications

1. It has a good thermal stability ($\geq 375^{\circ}\text{C}$), and could apply to molten plastic.
2. It is widely used in the polyester fiber to reduce the degree of changing-to-yellow and could increase the whiteness & brightness. Being the good whitening ability and stability, it can be compatible with many polymers with various properties. Now it becomes to an efficient brightening agent for many plastic products.
3. It is applicable for various polymers and recycled of polymer, and it could significantly promote the whiteness of recycled polymer and improve the recycled polymer value.
4. It can reduce the yellowish of polymer through the function of absorbing ultraviolet radiation and the effluent blue resent. For example, under the action of TiO_2 , it will affect the bright white appearance. The white enhancement factor contained in OB-3 can effect in polymer and make bluer white more than OB-1.

Dosage

25-300PPM in new polymer and 300-400PPM for recycled material.

Packing: in 25kg fiber drums.