Europark 1046, B-3530 Houthalen
+ 32 11 520740
www.radiantcolor.com

Technical Data Sheet

CFF-X-02

General Description

- Ultra-violet responsive fluorescent dye for plastic applications.
- Fluorescent brightener 184.

Applications

- UV Blue tracer for counterfeiting, security, leak detection, product identification.

Product Features

- CFF-X-02 is relatively invisible in normal daylight, but produces a highly visible bright and vibrant blue color upon exposure to ultra-violet or “black” light.
- Popular for security and tracing applications like counterfeit protection, product identification and process automation.
- CFF-X-02 is completely soluble in certain plastics and solvents and will not exhibit a noticeable particle size, upon dissolution.

Standard Color	
Product Name	Description
CFF-X-02	UV Blue

Characteristics	
Chemical type	Benzoxazol
C.I. No.	Not listed
C.I. Name	FB 184
CAS	7128-64-5
EINECS	230-426-4

Physical properties	
Appearance	Yellow powder
Hue under UV light	Bright Blue
Mol. Formula	$C_{26}H_{26}N_2O_2S$
Mol. Weight	430,6
Hiding power	Transparent
Melting point	195 – 200°C

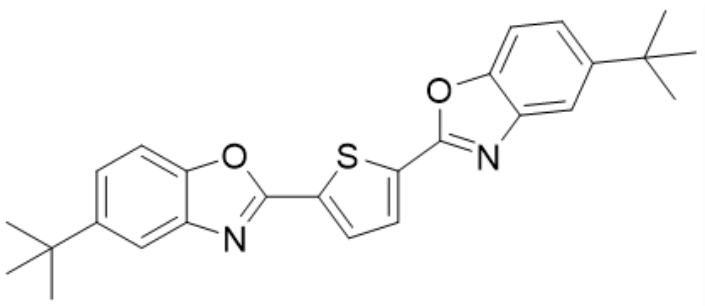
Packaging:
Box = 1kg
Box = 5kg
Box = 10kg
Box = 20kg

MOQ = 1kg

Storage & shelf life:
120 months when kept in closed original packaging in a dry place at ambient temperature.

Safety & regulatory:
Safety Data Sheet available on request.

Chemical Structure



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Solubility

Solvent	Solubility
Acetone	-
Ethylacetate	-
MMA	++
DIDP @RT	-
DIDP	+++
DMF	+
Water	0

Solubility	Evaluation	g/100ml
+++	High	5
++	Good	1
+	Limited	0,1
-	Low	< 0,1

Test method

The solubility of three dye concentrations (5g, 1g and 0,1g) is tested in 100ml of the listed solvents at room temperature. After stirring 30 minutes, the solubility is visually evaluated.

As a formulation contains mostly different solvents, it is impossible to generalize. We recommend checking the solubility of the fluorescent dye in your formulation.

Absorption and Fluorescence

Absorption: λ-max (0,01% in H_2O) = 232nm
Fluorescence: λ-max (0,01% in H_2O) = 434nm (excitation at 350 nm)