

Technical Data Sheet

Optical Brighteners

General description

DayGlo Optical Brighteners are recommended for leak detection and product identification. These brighteners are highly fluorescent under UV light (black light). They are supplied in dry form and offer good solubility and thermal stability.

Applications

- Leak detection
- Adhesives
- Non-destructive metal testing

Available Colors

Product Code	Color
D-298	Columbia Blue
D-286	UV Blue
D-282	Sky Blue
D-211	Ice Blue

Packaging:

5 Gallon Pails = 22 lb

Storage & shelf life:

120 months when kept in closed original packaging in a dry place at ambient temperature (below 60°C)

Safety & regulatory:

Safety Data Sheet available on request.

Physical properties

Delivery form	Powder
Recommended usage strength	~0.1%

Processing

Heat stability	288°C (550°F)
Compatibility	D-298, D-211 and D-286 are recommended for solvent systems and UV-Blue for aqueous systems. D-298, D-211 and D-286 can also be used in plastics such as PS, PVC, and PET

Optical Brighteners are soluble and are easily mixed-in.

Available Color Physical Properties			
Code	Color	Pigment CI Number	Color in Solution
D-298	Columbia Blue	Fls. Brightener 61	Essentially colorless in daylight. Intense blue under UV light.
D-286	UV Blue	Stilbene Type	
D-282	Sky Blue	Fls. Brightener 184	
D-211	Ice Blue	Fls. Brightener 393	

Solvent Characteristics				
Solvent	D-298 Columbia Blue	D-282 UV-Blue	D-286 Sky Blue	D-211 Ice Blue
Acetone	>100	---	2	>100
Methyl Cellosolve	>100	---	---	>100
Isopropanol	>100	---	---	>100
N-Propyl Acetate	>100	---	15	>100
Toluol	>100	---	50	>50
Mineral Spirits	Trace	---	10	Trace
Heptane	Trace	---	---	Trace
Methylene Chloride	>100	---	20	>100
Water	Insoluble	50	Insoluble	Insoluble
Stable at pH	---	4-11	---	---

Lightfastness

There are limitations on lightfastness and weathering properties inherent in certain pigments. We recommend that the lightfastness and weathering properties be tested under customers' performance standards.