

Technical Data Sheet

DyeBrite™ Fluorescent Dyes

General description

DyeBrite™ Fluorescent dyes should be applied in a concentration range of 0.05%-0.1%.

For maximum color development, the dye must be completely dissolved in the plastic resin. DayGlo dyes offer maximum transparency, which means excellent edge glow in clear resins.

Applications

- Plastics
- Polyolefin
- Polystyrene
- ABS,
- Polycarbonate
- Acrylic
- Nylon 6,
- PET
- PVC

Product Features

- Maximum transparency
- Cost effective pigment alternative

Available Colors

Product Code	Color
D- 208	Apache Yellow
D- 820	Savannah Yellow
D- 098	Pocono Yellow
D- 838	Potomac Yellow
D- 991	Seneca Yellow**
D- 191	Lackawana Yellow
D- 063	Ozark Orange
D- 315	Marigold Orange
D- 149	Ottawa Red
D- 041	Grand Red
D- 298	Columbia Blue
D- 286	Sky Blue
D-211	Ice Blue

Packaging:

2 Gallon Pails = 5 lb (2.2kg)

Storage & shelf life:

12 months when kept in closed original packaging in a dry place at ambient temperature. Ensure product is mixed well before using.

Safety & regulatory:

Safety Data Sheet available on request.

Physical properties

Delivery form	Powder
Specific gravity	1.2 – 1.6

Available Color Physical Properties				
Code	Color	Decomposition temp.	% Dye	Lightfastness (Fadeometer Hours)*
D-208	Apache Yellow	554	0.05	500
D-098	Pocono Yellow	599	0.05	500
D-063	Ozark Orange	599	0.05	500
D-041	Grand Red	554	0.05	100
D-838	Potomac Yellow	581	0.05	500
D-149	Ottawa Red	554	0.05	200

Available Color Physical Properties				
Code	Color	Pigment CI Name	Hue	Dye Class
D- 208	Apache Yellow	Solvent Green 5	Yellow	Perylene
D- 820	Savannah Yellow	Disperse Yellow 82	Yellow Shade	Coumarin
D- 098	Pocono Yellow	Solvent Yellow 98	Red Shade	Thio-xanthene
D- 838	Potomac Yellow	Solvent Yellow 160	Green Shade	Coumarin
D- 191	Lackawana Yellow	Solvent Yellow 191	Yellow	Thio-xanthene
D- 063	Ozark Orange	Solvent Orange 63	Red Shade	Thio-xanthene
D- 315	Marigold Orange	Solvent Orange 115	Red Shade	Thio-xanthene
D- 149	Ottawa Red	Solvent Red 149	Blue Shade	Anthra-quinone
D- 041	Grand Red	Vat Red 41	Blue Shade	Thio-Indigoid
D- 298	Columbia Blue	FB – 61	Blue Shade	Coumarin
D- 286	Sky Blue	FB – 184	Blue Shade	Thiophene
D-211	Ice Blue	FB-393	Blue Shade	Stilbene

Available Color Recommended Applications					
Code	Color	Polyolefin	Polystyrene	ABS	Polycarbonate
D-208	Apache Yellow	NR	+	+/-	+/-
D-098	Pocono Yellow	NR	+	+/-	+/-
D-063	Ozark Orange	NR	+	+/-	+/-
D-041	Grand Red	NR	+	+/-	+/-
D-838	Potomac Yellow	NR	+	+	+
D-149	Ottawa Red	NR	+	+	+/-

+ Recommended +/- Recommended, but should be tested in individual resins

Disclaimer: Our technical advice, information, statements, whether given verbally, in writing, or in the form of test results, is offered for your guidance without warranty. No warranty for fitness for a particular purpose is made. This also applies where protective rights of third parties are involved. It does not release the user from obligation to test the suitability of the products and formulas for the intended process and applications. Our guarantee is limited to the consistent quality of our product.

Available Color Recommended Applications

Code	Color	Acrylic	Nylon 6	PET	PVC, Rigid*
D-208	Apache Yellow	+	+/-	+/-	+/-
D-098	Pocono Yellow	+	+/-	+/-	+/-
D-063	Ozark Orange	+	+/-	+/-	+/-
D-041	Grand Red	+	+/-	+/-	+/-
D-838	Potomac Yellow	+	+/-	+	+/-
D-149	Ottawa Red	+	+/-	+/-	+/-

+ Recommended +/- Recommended, but should be tested in individual resins

Solvent Characteristics (g / 100ml)

D-820 Savannah Yellow		D-098 Pocono Yellow		D-298 Columbia Blue	
Dimethylformamide	1.57	Benzene	16.00	Acetone	250
Ethyl Alcohol	0.31	Toluene	14.50	Ethyl Alcohol	350
Ethyl Acetate	0.03	Acetone	0.80	Isopropanol	200
Acetone	0.49	White Spirits	1.40	Methyl Alcohol	500
M.E.K.	0.07	Mineral Oils	0.50	n-propyle acetate	200
Perchloroethylene	0.05	Diocetylphthalate	2.40	Toluene	1000
D-149 Ottawa Red		D-286 Sky Blue		D-838 Potomac Yellow	
Acetone	0.06	Toluene	0.19	Acetone	0.006
Ethyl Acetate	0.06	Ethyl Alcohol	0.07	Ethyl Acetate	0.006
Ethyl Alcohol	0.07	Ethyl Acetate	0.06	Ethyl Alcohol	<0.001
M.E.K.	0.1	Acetone	0.06	M.E.K.	0.01
MMA monomer	0.01	M.E.K.	0.10	MMA monomer	0.01
Toluene	0.19	MMA Mono	0.01	Xylene	0.02
D-208 Apache Yellow					
Acetone	0.07				
Ethyl Acetate	0.09				
Ethyl Alcohol	0.00				
M.E.K.	0.17				
Perchloroethylene	0				
Toluene	0.46				

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Solvent Characteristics					
D-063 Ozark Orange		D-191 Lackawana Yellow		D-041 Grand Red	
Acetone	NS	Acetone	NS	Acetone	NS
Ethyl Alcohol	NS	Ethyl Alcohol	NS	Ethyl Alcohol	NS
Ethyl Acetate	NS	Ethyl Acetate	NS	Ethyl Acetate	NS
DMF	S	M.E.K.	NS	M.E.K	NS
Perchloroethylene	NS	MMA monomer	NS	Petroleum oil	NS
Diethylphthalate	NS	Water	NS	Dimethylformamide	NS
D-315 Marigold Orange		D-330 Arkansas Violet		D-211 Ice Blue	
Acetone	NS	Acetone:	NS	Acetone	ND
Ethyl Alcohol	NS	Ethyl Alcohol	NS	Benzyl Alcohol	ND
Ethyl Acetate	NS	Ethyl Acetate	NS	Butyl Acetate	ND
M.E.K.	NS	M.E.K.:	NS	M.E.K.	ND
Perchloroethylene	NS	DMF	NS	MMA monomer	ND
Dimethylformamide	S	Xylene	NS	Xylene	ND

Key: NS = Not Soluble S = Soluble ND = Not Determined

NOTE: The above information is offered as a recommendation only. The suitability of DyeBrite™ fluorescent dyes should be determined by evaluation in your specific application.