

## + Plasticolors® DL Colorants

### Colorants for Polyurethane Applications

Plasticolors® DL colorants have been designed to provide an effective way to tint a broad range of polyurethane systems, particularly in RIM, foam, spray elastomers, and shoe sole applications. These products are dispersed in a polyether polyol to maximize compatibility and produce a color system designed to provide excellent color performance.

#### ► Key Benefits

These colorants have broad compatibility across polyurethane systems. The DL colorants are low in viscosity and suitable for third-stream operations. When used in a batch process, the low viscosity makes them pumpable, flowable and pourable in a manner that makes them exceptionally easy to handle. The ability to achieve low viscosity allows for less waste left over in the container. Pigment solids concentration is optimized to balance viscosity with the color strength. Consistent color quality is made available in a large palette of colors and pigment chemistries.

#### ► Properties

DL colorants contain no solvents or reactive monomers, are heavy metal free\*, and produce high tint strength. Our technology produces the optimal particle size for color strength and pigment efficiency. Typical product viscosities for DL colorants range from 8,000 cP (mPa\*s) to 20,000 cP (mPa\*s) depending on pigment chemistry and concentration. All colorants contain pigments dispersed in a 4,800 Mw triol with a hydroxyl number of 35. Colorants are controlled to a low moisture specification to reduce impact on isocyanate reactivity. Resins used are fully reactive in polyurethane systems and crosslink into the matrix solids when cured.

#### ► Compatibility

- Polyether Polyols
- Polyureas

#### ► Applications

DL colorants are made to serve in a wide variety of polyurethane applications. As such, they are best suited for the following processes:

- Reaction Injection Molding (RIM)
- Flexible and Slabstock Foam
- Spray Elastomer
- Shoe Soles

Products can also be used in adhesives, sealants, cast, and elastomer applications.

#### ► Handling and Storage

Proper handling is essential to maintain good quality. Containers should be tightly sealed when not in use. This will prevent the absorption of atmospheric moisture and minimize the chance of airborne contamination. Containers should be stored in a manner as to protect them from temperature extremes (0-45°C, 32-120°F). It is recommended that the containers be mixed prior to use. Shelf life of the DL colorants is 24 months from the date of manufacture in unopened containers. Reference the MSDS for more product care information.

\* Chromaflo Technologies does not intentionally add any heavy metals, reactive monomers or solvents to these dispersions. However, some raw materials may contain impurities in trace amounts.



Product Code	Description	CI Name	Pigment Wt. %	Specific Gravity	Pigment Lightfastness <sup>1</sup>		Pigment Weatherfastness <sup>2</sup>	
					Full	Tint	Full	Tint
DL-10718	White	PW6	50	1.99	7-8	-	5	-
DL-02706	Tinting Black	PBk7	16	1.09	8	8	5	5
DL-02830	HS Black	PBk7	35	1.17	8	8	5	5
DL-30129	Violet BS	PV19	24	1.11	7-8	7-8	4-5	4-5
DL-30622	Phthalo Blue GS	PB15:3	17	1.09	8	8	5	5
DL-50056	Phthalo Green	PG7	25	1.17	7-8	7	5	5
DL-60237	Organic Orange	P034	20	1.17	5-6	5	-	-
DL-70242	Violet RS	PV19	20	1.09	7-8	7	4	3-4
DL-70984	Red Oxide	PR101	50	1.62	8	8	5	5
DL-80166	Organic Yellow	PY14	15	1.80	5	3-4	1	1
DL-80686	Oxide	PY42	34	1.39	8	8	5	5
DL-80721	Organic Yellow	PY151	13	1.19	6-7	6-7	-	-
DL-212375	Grey	Blend	45	1.46	-	-	-	-
DL-411618	Tan	Blend	42	1.47	-	-	-	-

Products listed represent standard colors. Custom color matched blends are available with special consideration for a variety of requirements, including color, outdoor durability, abrasion, and cost considerations. If a specific pigment chemistry or custom blend is needed, please contact Chromaflo Technologies.

**NOTE:** All fastness data is based on pigment supplier information and is given for guidance only. It is not an indicator of fastness in all applications, as many factors and components have a high level of influence over performance. It is the responsibility of the user to test and verify performance in their individual application.

(1) Light fastness is measured on an eight step blue wool scale, where 1=very poor light fastness and, 8=excellent light fastness.

(2) Weather resistance is measured on a five step gray scale, where 1= very poor weather resistance, 5= excellent weather resistance

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