

## + Plasticolors® EDC

### Pigment Dispersions for Epoxy Applications

EDC pigment dispersions have been designed to provide an effective way to tint most epoxy systems, particularly in cast, filament winding, and pultrusion applications. These products use epoxy resins with broad compatibility that produces a color system designed to provide excellent color performance in tinting or full pigmentation systems.

#### ► Key Benefits

These pigment dispersions have broad compatibility across epoxy systems. The EDC pigment dispersions are low in viscosity and are 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

EDC pigment dispersions contain no solvents, are heavy metal free\*, and produce high tint strength. Our technology produces the optimal particle size to maximize color strength and pigment efficiency. Typical product viscosities for EDC products are lower than 20,000 cP (mPa\*s) depending on pigment chemistry and concentration. All colorants contain pigments dispersed in resins with an epoxide equivalent weight (EEW) of 185 to 192. EDC pigment dispersions may contain dispersants, diluents, or other additives to provide special characteristics, such as lower viscosity or improved compatibility with systems that are difficult to color. Resins used are fully reactive in epoxy systems and crosslink into the matrix solids when cured by common curing agents, such as aliphatic polyamines, cycloaliphatic amines, polyamides, amidoamines, aromatic amines, and anhydrides. Product viscosity can increase dramatically at temperatures below 25°C (77°F), so it is strongly recommended that the product temperature be brought above 25°C (77°F) prior to use.

\* 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.

#### ► Compatibility

- Epoxy Resins
- Unsaturated Polyester Resins

#### ► Applications

EDC pigment dispersions are made to serve in a wide variety of epoxy applications. As such, they are best suited for the following processes:

- Epoxy Cast
- Pultrusion
- Filament Winding

Products can also be used in caulk, sealant, and adhesive 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 EDC colorants is 24 months from the date of manufacture in unopened containers. Reference the MSDS for more product care information.



Product Code	Description	CI Name	Pigment Wt. %	Specific Gravity	Pigment Lightfastness <sup>1</sup>		Pigment Weatherfastness <sup>2</sup>	
					Full	Tint	Full	Tint
EDC-10198	White	PW 6	69	2.18	7-8	-	5	-
EDC-20682	Black	PBk 7	25	1.17	8	8	5	5
EDC-30266	Phthalo Blue RS	PB 15:2	25	1.16	8	8	5	5
EDC-30268	Phthalo Blue GS	PB 15:4	25	1.16	8	8	5	5
EDC-30283	Violet BS	PV 19	10	1.09	7-8	7-8	4-5	4-5
EDC-50119	Phthalo Green	PG 7	25	1.21	7-8	7	5	5
EDC-70411	Red Oxide	PR 101	69	2.27	8	8	5	5
EDC-70428	Violet RS	PR 19	20	1.11	7-8	7	4	3-4
EDC-80326	Yellow Oxide	PY 42	60	1.88	8	8	5	5
EDC-80360	Organic Yellow	PY 14	23	1.11	5	3-4	1	1
EDC-80345	Organic Yellow	PY 151	23	1.12	6-7	6-7	-	-

Products listed represent standard single pigment 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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