

CF Polyester Colorants

Color Solutions

Plasticolors® CF Colorants

General Information

Waste less with low viscosity colorants designed for polyester applications. While our CF colorants have become an industry standard because of its color strength, it has gone through continued development over time to serve as one of the most efficient colorants in the market.

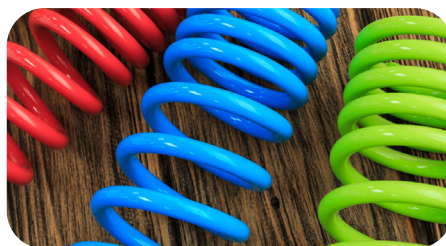
Key Benefits

These colorants 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 solid 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

CF 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 range from 3,000 to 20,000 cP (mPa*s) depending on pigment chemistry and concentration. All pigments are dispersed in a low molecular weight unsaturated polyester resin.

The unsaturation allows for cross-linking through double bonds as occurs in peroxide-cured polyesters or vinyl esters in the presence of a reactive monomer, such as styrene. In addition, the secondary hydroxyl groups provide a means to crosslink the resin with polyisocyanates. When crosslinked with or covalently reacted the CF resin is fully converted to a portion of the matrix solids.



Compatibility

- Unsaturated Polyester Resins
- Vinyl Esters
- Acrylate Monomers

Applications

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

- SMC, BMC, TMC
- Pultrusion
- Polyester Cast
- Polymer Concrete

They can also be used in Panel and Cast Polymer.

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 CF line colorants is 24 months from the date of manufacture in unopened containers. Reference the MSDS for more product care information.



Colorant Shade		Product Code	Description	CI Name	Pigment Wt. %	Specific Gravity	Pigment Lightfastness		Pigment Weatherfastness	
Mass Tone	Tint 1:5						Full	Tint	Full	Tint
		CF-1099	Titanium Dioxide	PW 6	73	2.22	7-8	-	5	-
		CF-1027A	Zinc Sulfide	PW 7	65	1.99	-	-	-	-
		CF-2010M	Tinting Black	PBk 7	17	1.17	8	8	5	5
		CF-20737	HS Black	PBk 7	34	1.10	8	8	5	5
		CF-02811	HS Black	PBk 7	50	1.17	8	8	5	5
		CF-03023	Phthalo Blue RS	PB 15:2	20	1.16	8	8	5	5
		CF-30097	Phthalo Blue GS	PB 15:4	20	1.17	8	8	5	5
		CF-05039	Phthalo Green BS	PG 7	22	1.22	7-8	7	5	5
		CF-06047	Organic Orange	PO 34	20	1.14	5-6	5	-	-
		CF-60249A	Organic Orange	PO 36	24	1.12	7	7	-	-
		CF-7022	Red Oxide	PR 101	70	2.38	8	8	5	5
		CF-70214	Quinacridone Violet	PV 19	15	1.14	7-8	7	4	3-4
		CF-70186	Organic Red	PR 170	20	1.13	-	-	3-4	2-3
		CF-8006	Yellow Oxide	PY 42	60	1.94	8	8	5	5
		CF-8007	Organic Yellow	PY 14	20	1.14	5	3-4	1	1
		CF-80139	Organic Yellow	PY 151	25	1.16	6-7	6-7	-	-

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 Vibrantz 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 blue gray scale, where 1= very poor weather resistance, 5= excellent weather resistance

The information and recommendations contained herein are based on data we believe to be reliable and does not imply any warranty or performance guarantee, as conditions and methods of use of our products are beyond our control. The data herein is determined using Vibrantz’s standard test methods. Hazard and safety information with respect to this product is available in the applicable SDS. Vibrantz will not be liable under any circumstance for consequential or incidental damages, including but not limited to, lost profits resulting from the use of our products