



UCD™ COLORANTS V LINE

INTRODUCTION

The V series of colorants has been designed for broad use in modern coatings. These products have closely controlled color strength and viscosity to permit reproducible color matches by volumetric machine dispensers or weight measurement in the plant.

The colorant vehicle consists of a low-molecular weight acrylic resin dissolved in pure propylene glycol monomethyl ether (PM) acetate. This combination provides superior compatibility with two-package urethanes, epoxies, alkyds of all oil lengths, and vinyls.

UCD™ V colorants are thixotropic, which makes them resistant to separation by settling or syneresis. The PM acetate solvent assures long package life and freedom from caking and drying in opened containers or dispensing equipment.

COMPATIBILITY

RESINS

Air-drying

Nitrocellulose
Acrylics
VT alkyds
Alkyds
Polyesters
Epoxy esters
Vinyls
Modified urethanes

Thermosetting

Alkyd ureas
Alkyd melamines
Acrylic isocyanates
Polyester isocyanates
Two-pack epoxies
Functional vinyls

SOLVENT/ALCOHOLS

Esters
Ketones
Ethers
Reactive diluents

Hydrocarbons
Aliphatic
Aromatic

CHEMISTRY

The V colorant vehicle is a nonfunctional methacrylate polymer with a tightly controlled, low molecular weight. The low molecular weight of the vehicle helps to ensure full development of pigment strength while providing a rheological profile suited to automated dispensers.

Only prime pigments are included in this line's

color spectrum; no extenders are present. Dedicated processing with state-of-the-art equipment assures lot-to-lot consistency in color and strength.

PM acetate is used as the solvent because it is not toxic and does not react with crosslinking resins such as isocyanates.

PROPERTIES

The tinting strength of the colorants is controlled to $\pm 2\%$ of the standard. The color difference is controlled to less than 0.8 CIELAB units with the individual color components (DA, DB, and DL) controlled to ± 0.80 CIELAB units.

HANDLING AND STORAGE

Proper handling is essential to maintain good quality. It is recommended that the colorants be mixed prior to use. Containers should be tightly sealed when not in use. Repacking the colorant into a smaller container should be considered if the colorant level in the container is less than 20% of the original amount and will be stored for an extended period of time.

Shelf life on the V line colorants is 2 years from the date of manufacture.



Plasticolors, Inc.

Index			COMPOSITION							PIGMENT PERFORMANCE							
			% Pigment		% Methacrylate Resin		% Solvents		Theo. Density	Lightfastness		Bleeding				Resistance	
Code	Color	Name	Wt	Vol	Wt	Vol	Wt	Vol	Lb/Gal	Mass	Tint	Oil	Spirits	Toluene	Lacquer	Acid	Alkali
1106	Titanium Dioxide	Wh 6	65.0	30.9	9.7	17.4	25.3	51.7	15.84	E	E	N	N	N	N	E	E
1507	Carbon Black	Bk 7	16.5	9.7	20.0	19.8	63.5	70.5	8.81	E	E	N	N	N	N	E	E
1530	Jet Carbon Black	Bk 7	7.0	4.0	23.1	21.8	69.9	74.2	8.40	E	E	N	N	N	N	E	E
1625	Lampblack	Bk 7	16.4	9.6	20.8	20.6	62.8	69.8	8.81	E	E	N	N	N	N	E	E
1635	Medium Color Black	Bk 7	18.0	10.6	19.7	19.7	62.3	69.7	8.87	E	E	N	N	N	N	E	E
4775	Ultramarine Blue	Bl 29	60.0	37.7	13.2	18.2	26.8	44.1	12.29	E	E	N	N	N	N	P	G
4800	Phthalo Blue RS	Bl 15:2	18.5	12.7	19.8	19.5	61.7	67.8	8.77	E	E	N	N	N	N	E	E
4820	Phthalo Blue GS	Bl 15:3	17.0	10.7	25.8	25.5	57.2	63.8	8.77	E	E	N	N	N	N	E	E
5100	Chrome Oxide Green	G 17	70.0	30.5	12.1	25.5	17.9	44.0	18.51	E	E	N	N	N	N	E	E
5150	Phthalo Green BS	G 7	25.0	13.5	18.2	19.3	56.8	67.2	9.44	E	E	N	N	N	N	E	E
5166	Phthalo Green YS	G 36	26.7	11.7	19.4	21.5	53.9	66.8	9.84	E	E	N	N	N	N	E	E
5675	Diarylide Yellow	Y 14	18.0	11.6	21.2	18.7	60.8*	69.7*	7.86	G	F	N	N	N	N	E	E
5696	Organic Yellow	Y 151	30.0	22.0	17.9	18.2	52.1	59.8	9.02	E	E	N	N	N	N	E	G
5710	Benzidine Yellow	Y 17	11.0	7.4	23.3	19.6	65.7*	73.0*	7.60	G	G	N	N	S	S	E	E
5721	Transparent Yellow Oxide	Y 42	27.0	8.7	21.8	24.0	51.2	67.3	9.64	E	E	N	N	N	N	E	E
5740	High-Strength Yellow	Y 83	16.0	10.0	18.4	15.8	65.6*	74.2*	7.37	G	G	N	N	N	S	E	E
5744	Irgazin Yellow	Y 110	10.0	5.6	22.1	21.1	67.9	73.3	8.56	E	E	N	N	N	N	E	E
5750	Yellow Oxide	Y 42	53.5	21.5	12.2	18.3	34.3	60.2	13.57	E	E	N	N	N	N	E	E
5762	Diarylide Yellow RS	Y 83	23.0	16.1	19.1	19.1	57.9	64.8	8.84	E	E	N	N	S	S	E	E
5767	Paliotol Yellow	T 153	25.0	16.7	19.0	19.3	56.0	64.0	9.02	E	E	N	S	C	N	F	F-P
5832	Raw Umber	Br 7	40.0	15.9	17.6	22.7	42.4	61.4	11.47	E	E	N	N	N	N	E	E
5861	Burnt Umber	Br 7	40.0	15.5	18.9	24.6	41.1	59.9	11.65	E	E	N	N	N	N	E	E
5891	Transparent Red	R 101	20.0	5.6	31.6	31.8	48.4*	62.6*	8.90	E	E	N	N	N	N	E	E
5940	Oxide DNA Orange	O 5	30.0	19.7	18.8	17.4	51.2*	62.9*	8.37	G	F	S	S	C	C	E	E
6012	Organic Orange	O 34	23.0	17.2	16.3	16.0	60.7	66.8	8.71	G	F	N	N	S	N	E	E
6080	Red Oxide	R 101	62.0	24.2	11.5	19.8	26.5	56.0	16.27	E	E	N	N	N	N	E	E
7942	Toluidine Red	R 3	24.5	16.9	22.9	21.2	52.6*	61.9*	8.22	E	F	C	C	C	C	E	E
7949	Organic Red	R 170	33.0	25.4	17.6	17.9	49.4	56.7	9.05	E	G	N	N	N	N	E	E
7955	Watchung Red	R 48:1	24.0	12.8	22.2	20.5	53.8*	66.7*	8.14	G	F	N	N	N	N	P	G
7975	Fast Red	R 187	15.0	10.6	21.1	20.3	63.9	69.1	8.55	E	G**	N	N	N	N	E	E
8030	Quinacridone Red	V 19	18.0	12.4	22.8	22.2	59.2	65.4	8.63	E	E	N	N	N	N	E	E
8062	BON Red	R 48:2	23.2	16.2	21.8	21.7	55.0	62.1	8.84	G	P	S	S	N	C	E	P
8406	Carbazole Violet	V 23	5.1	3.2	32.5	30.6	62.4	66.2	8.35	E	E	N	N	N	N	E	E
8443	Quinacridone Violet	V 19	18.5	12.8	19.4	18.9	62.1	68.3	8.66	E	E	N	N	N	N	E	E

The performance data shown in this table are taken from the pigment suppliers' literature: E=Excellent, G=Good, F=Fair, S=Slight, C=Considerable, P=Poor, N=None

These suggestions and data are based on information we believe to be reliable. They are offered in good faith, but without guarantee, as conditions and methods of use of our products are beyond our control. We recommend that the prospective user determine the suitability of our materials and suggestions before adopting them on a commercial scale.

