

# JCOLOR® VQ-D SERIES

Solvent and bleed resistant Fluorescent Pigments; Thermoset & Microspherical

<b>RECOMMENDED APPLICATOINS:</b>	Bleed Resistant Vinyl Plastisols, Specialty Coatings/Inks, Solvent Sensitive Systems, and Crayons				
<b>HIGHLIGHT OF PROPERTIES:</b>	Thermoset, narrow distributed microspherical particles render properties of good resistance to solvent and bleed, and excellent light scattering and opacity, dispersability, tinting strength, and broad compatibility.				
<b>SHADES:</b>	Chartreuse, Green, Orange-Yellow, Orange, Orange-Red, Red, Cerise, Pink, Magenta, Blue, Purple				
<b>CHEMICAL NATURE:</b>	A solid solution of fluorescent dyes in an amino resin				
<b>PHYSICAL PROPERTIES:</b>					
Shape and state:	Solid micron-sized spherical particles				
pH:	3.8~ 6 (5% dispersion in water)				
*Moisture*:	< 4% (2 gram under 140C for 0.5 hours)				
Specific Gravity:	1.3 (20℃)				
Solvent Resistance:	Not soluble in most solvent systems. (Solubility is tested in a 40C water bath for 30 minutes. Following the solubility test, appearance of the supernatant is observed and marked for bleed scales.)				
Bleed Resistance:	<b>Solvent</b>	Acetone, Methanol, Methyl Ethyl Ketone	Ethanol, 2-Propanol	Ethyl Acetate	Mineral Spirits, Toluene, Xylene
	<b>Bleed</b>	2	1-2	1	0
	Bleed scales: 0 – negligible; 1 – slight; 2 – moderate; 3 – considerable				
*Particle Size* (Microscope):	Maximum 10 μm; Average <5 μm				
Softening Point:	Thermoset; no softening point. But observed color changes at ~260℃				
Decomposition Point:	> 300℃; Maximum Processing Temperature: 260℃				
<b>*COLOR ASSESSMENT*:</b>	Shade (hue) and strength are compared against an approved standard by trained technicians upon preparing side-by-side drawdowns and placed in standard light box equipped with UV and D65 light source.				
<b>STORAGE:</b>	Under conditions that are cool, dry, covered, away from direct sunlight and free of airborne contaminates, VQ-D pigments have an indefinite shelf life. But J Color will not assume responsibility for storage time longer than 6 months upon purchasing. Stay away from electrostatic charges, and ignition sources.				
<b>TOXICITY:</b>	Tests conducted through independent laboratories have found JCOLOR® VQ-D-Series Fluorescent Pigments to be "essentially non-toxic." MSDS is available upon request. Good industrial hygiene and handling methods are essential in the use of all products whether or not they are determined to be hazardous.				
<b>NOTE:</b>	1. Items marked with * are standard QC items taken on batch bases. 2. Prepared by: HJW; Revised: LS 2011-12-5, HJW 202-3-6				