

VC PIGMENTS FOR VINYL

DayGlo® VC-Pigments have exceptional brightness, high tinctorial strength, are translucent, and possess excellent heat stability; surpassing melamine-formaldehyde pigments in these characteristics.

VC-Pigments are vinyl based and recommended for calendered, extruded and injection molded vinyl.

Available Colors:

VC-11	Aurora Pink*
VC-13	Rocket Red*
VC-17	Saturn Yellow*
VC-45	Strong Pink

Intermediate shades can be obtained by blending these pigments.

Application:

VC-Pigments are recommended for rigid and plasticized PVC. They do not cause buildup on calendering or two roll mill equipment and have a low degree of plateout on metal surfaces of processing equipment. The typical use rate is 1 – 3% pigment by weight.

Stabilizer:

VC-Pigments do not have any lead or cadmium containing stabilizer.

Transparency:

VC-Pigments were designed for maximum transparency and offer excellent edge glow. For opacity, TiO₂ can be added at a ratio of 3:1 - VC-Pigment:TiO₂. Small amounts of TiO₂ may be necessary in transparent resins to increase the fluorescent effect.

Heat Stability:

VC-Pigments display no color change after a heat history of 20 minutes at 350°F (175°C) on a two roll mill. For injection molding, it is recommended that the pigment be converted into pellet form in order to minimize sifting, packing and potential burn-out.

*Trademark of DayGlo Color Corp.

Lightfastness:

The higher the pigment concentration, the better the lightfastness. The lightfastness can be influenced by plasticizers, stabilizers, and other additives. At a concentration of 3%, VC-Pigments exhibit better lightfastness than other organic fluorescent pigments tested in an Atlas Xenon Arc Weatherometer.

Bleeding:

Bleeding that occurs when using VC-Pigments is greatly influenced by the amount of plasticizer used in the vinyl formulation. The tendency to bleed can be reduced by using lower amounts and/or higher molecular weight plasticizers.

Typical Formulation:

3% of vinyl colorant by total weight of vinyl compound or resin is recommended as a starting point.

Typical Physical Properties:

Minimum Processing Temperature	250°F (120°C)
Heat Stability	395°F (200°C)
Softening Point	250° - 340°F (120° - 170°C)
Specific Gravity	1.26 Average