

Technical Data Sheet

VC Pigments

General description

DayGlo VC pigments are vinyl-based and recommended for calendered, extruded and injection molded vinyl applications.

They offer excellent dispersion, heat stability, and improved lightfastness in plastisol applications, and are also available in non-phthalate versions.

Applications

- Rigid PVC
- Plasticized PVC

Product features

- Do not cause buildup on calendaring or two mill roll equipment
- Low degree of plateout
- Typical use rate is 1 – 3% pigment by weight
- Designed for maximum transparency
- Excellent edge glow

Available Colors

Product Code	Color
VC-11	Aurora Pink*
VC-13	Rocket Red*
VC-17	Saturn Yellow*
VC-18	Horizon Blue
VC-45	Strong Pink

Packaging:

1 bag = 55lb (25kg)

Storage & shelf life:

120 months when kept in closed original packaging in a dry place at ambient temperature.

Safety & regulatory:

Safety Data Sheet available on request.

Physical properties

Delivery form	Powder
Specific Gravity	1.26 g/ml
Average particle size	20-60 µm
Minimum processing temperature	250°F (120°C)
Melting point	250°F-340°F (120°C-170°C)

Processing	
Heat stability	395°F (200°C) 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.
Stabilizer	VC-Pigments do not have any lead or cadmium containing stabilizer.
Transparency	For opacity, TiO ₂ can be added at a ratio of 3:1 - VC-Pigment:TiO ₂ . Small amounts of TiO ₂ may be necessary in transparent resins to increase the fluorescent effect.
Usage	Typical formulation of VC is 3% of vinyl colorant by total weight of vinyl compound or resin is recommended as a starting point. 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.

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.