

Technical Bulletin

NX-C PIGMENTS

DayGlo NX-C Pigments are recommended for blow molding applications. They exhibit low blow pin plate-out, high tinctorial strength and permit high pigment loading in concentrates.

Available Colors:

NX-13C	Rocket Red™
NX-14C	Fire Orange™
NX-15C	Blaze Orange™
NX-17C	Saturn Yellow®
NX-21C	Corona Magenta™

To obtain a strong fluorescent green, 1% of NX-17C Saturn Yellow should be blended with approximately 0.03% of BS Phthalo Green.

Chemical Nature & Dispersion Properties:

NX-C Pigments are a solid solution of fluorescent dyes in a thermoplastic polyamide resin.

To ensure complete color development when incorporating NX-C Pigments into plastic resins, it is essential the minimum processing temperature of 370°F (190°C) is reached and the pigment completely melted and evenly distributed throughout the plastic.

Additives:

Certain metal ions are known to cause color changes and loss of brightness with fluorescent colorants. Studies have shown that plastic processing additives containing "free" zinc, magnesium, calcium and iron will cause deleterious color effects when used in a plastic resin system containing NX-C Pigment.

If a metal containing additive must be used, it should be thoroughly tested to ensure the color stability of the NX-C Pigment. Also, refer to Technical Bulletin "Effects of Metal Ions on Fluorescent Colorants in Plastics".

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Color Concentrate:

NX-C Pigments will allow pigment loadings of 40-50% in concentrates.

Tinctorial Strength:

The high tinctorial strength of the NX-C Pigments permits higher amounts of TiO₂ to be added for opacity while maintaining the fluorescent effect.

Typical Physical Properties:

Minimum Processing Temperature	370°F (190°C)
Heat Stability	475°F (245°C)
Softening Point	275°F - 310°F (135°C - 155°C)
Particle Size	Granular
Bulk Density	0.72g/cm ³

Applications:

NX-C Pigments were developed for use in polyethylene blow molded containers and other thin film applications. NX-C Pigments have also been applied in other plastic resins and at different processing conditions, but we recommend their thorough testing first.

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