

# Technical Data Sheet

## NX-C Pigments

### General description

DayGlo NX-C pigments are high strength colorants formulated specifically for blow molding applications.

They exhibit low blow pin plateout and with a coarse particle size, high pigment loadings are easily achieved.

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's essential to reach the minimum processing temperature of 370°F (190°C). This will ensure the pigment is completely melted and evenly distributed throughout the plastic.

### Applications

- Polyethylene blow molded containers
- Thin film applications
- Other plastic resins and at different processing conditions, but thorough testing for compatibility is recommended

### Available Colors

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

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

### Packaging:

1 box = 44lb (20kg)

### 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	1.2 g/ml
Average Particle Size	>100 µm
Bulk Density	0.72g/cm <sup>3</sup>
Melting Point	275°F-310°F (135°C-155°C)

### Processing & Heat Stability

Heat stability	475°F (245°C)
Minimum processing temp	370°F (190°C)

(1) Test methods and Certificate of Analysis (COA) available on request.

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## 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".

Application Recommendations			
Polyethylene	+	PA (Nylon)	+/-
Polypropylene	+	Polycarbonate	+/-
Polystyrene	+/-	PMMA (Polyacrylic)	+/-
ABS	+/-	Rigid PVC	+/-
Ionomer	+/-	Urethane	+/-

+ Recommended +/- Recommended, but should be tested in individual resins