

# Technical Data Sheet

## Z Pigments

### General description

DayGlo® Z Pigments are a solid solution of fluorescent dyes in a thermoplastic modified polyamide resin.

They offer low mold plate-out, high heat stability and smaller particle size of 10-12 microns. All of this makes them ideal for plastics applications where dispersion is key.

Z Pigments also offer good tinctorial strength and bright shades.

### Applications

- Injection molding
- Polyethylene blow-molded containers
- Rotational molding
- Thin film applications

### Available Colors

Product Code	Color
Z-11	Aurora Pink
Z-12	Neon Red
Z-13	Rocket Red
Z-14	Fire Orange
Z-15	Blaze Orange
Z-17	Saturn Yellow
Z-18	Signal Green
Z-21	Corona Magenta

### Packaging:

1 box = 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
Average Particle Size	10-12 µm
Hegman grind	4.0 Minimum
Specific gravity	1.14 g/ml

Processing & Heat Stability	
Softening point	280°F-310°F (138°C-155°C)
Heat stability	575°F (300°C)
Minimum processing temp	Recommended minimum processing temperature is 370°F (190°C)
Solvent resistance	Insoluble in water, hydrocarbons and many common solvents
Pigments must be completely melted and evenly distributed throughout the plastic system	

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

## Additives

Certain metal ions and nucleated polymers 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 conjunction with Z Pigments.

If a metal containing additive must be used, it should be thoroughly tested to ensure the color stability of the Z Pigments.

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

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