

Technical Data Sheet

GloPrill® FDA Compliant Pigments (GPF)

General description

DayGlo® GloPrill® GPF pigments meet FDA regulations for use in polypropylene and high-density polyethylene food contact applications.

GPF pigments can be used at loadings up to 1.0% by mass in HDPE and PP resins, maintaining compliance with all food types under conditions of use E-G as defined in 21 CFR 176.170(c).

When used as intended, these pigments fully comply with the Federal Food, Drug, and Cosmetic Act, along with all relevant regulations.

Designed specifically for plastics concentrate and masterbatch producers, GPF pigments offer vibrant fluorescent colors and exceptional processing properties. They enable high-speed production, minimize blow-pin and mold cavity plate-out issues, and simplify product formulations by eliminating the need for expensive and challenging additives. An expanded fluorescent color palette can be created by combining the GPF pigments with other FDA compliant dyes and pigments.

Applications

- HDPE food contact applications
- Polypropylene food contact applications
- Packaging
- Housewares
- Closures and lids
- Food storage containers
- Pharmaceutical packaging

Product Features

- FDA compliant at a maximum loading of 1.0% by mass
- May be utilized in conditions of use E, F and G as defined in 21 CFR 176.170(c)*

Disclaimer: Our technical advice, information, statements, whether given verbally, in writing, or in the form of test results, is offered for your guidance without warranty. No warranty for fitness for a particular purpose is made. This also applies where protective rights of third parties are involved. It does not release the user from obligation to test the suitability of the products and formulas for the intended process and applications. Our guarantee is limited to the consistent quality of our product.

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Available Colors

Product Code	Color
GPF-22	Corona Magenta
GPF-26	Rocket Red
GPF-30	Blaze Orange
GPF-31	Aurora Pink
GPF-34	Saturn Yellow

Packaging:

1 box = 55lb (21kg)

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.

- Cleanest, brightest fluorescent products offered for blow molding and injection molding
- Lowest cost in use when used at full strength as a replacement for melt-in colorants
- Fast processing and cleanup with dust free performance from a high-strength prill
- Unsurpassed plate-out performance
- Formaldehyde free

Physical properties	
Delivery form	Free flowing prill
Melt Index per ASTM D1238	22g/10 min.
Bulk value	41.63 lbs/ft ³ (0.67g / cm ³)

Processing & Heat Stability	
Heat stability	550°F
Minimum processing temp	300°F

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

Suggested Blends to Create Other Fluorescent Shades	
Signal Green Blend	
Saturn Yellow, GPF34	1.0%
Pigment Green 7**	0.0125%
Rave Purple Blend	
Corona Magenta, GPF22	0.6%
Ultramarine Blue**	0.4%

** Use compliant grades

*Conditions E-G from 21 CFR 176.170(c)	
E	Room temperature filled & stored, (No thermal treatment in the container)
F	Refrigerated Storage, (No thermal treatment in the container)
G	Frozen Storage, (No thermal treatment in the container)

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