

Technical Bulletin



INTRODUCTION

GloPrill® GPF Pigments are the first FDA compliant colorants developed especially for use in polypropylene and high-density polyethylene food contact applications. The GPF Pigments may be used at loadings up to 1.0 % by mass in HDPE and PP resins in contact with all food types under conditions of use E-G defined in 21 CFR 176.170(c). When used as intended, the GPF pigments comply fully with the Federal Food, Drug, and Cosmetic Act and all applicable regulations. Designed with the plastics concentrate / masterbatch producer in mind, the GPF pigments offer brilliant, clean fluorescent color with superior processing properties. The GPF pigments offer continuous high-speed production, virtually eliminate blow-pin and mold cavity plate-out and enable the formulator to simplify their product by removing expensive and hard to use additives. An expanded fluorescent color palette may be achieved by combining the GPF pigments with other FDA compliant chromophores.

ADVANTAGES

- Suitable for use in HDPE and PP food contact applications.
- FDA compliant at a maximum loading of 1.0% by mass.
- Suitable for all food types.
- May be utilized in conditions of use E, F and G as defined in 21 CFR 176.170(c)*.
- Dust free performance from a super high strength prill.
- Cleanest, brightest fluorescent products offered for blow molding and injection molding.
- Use at full strength for lowest cost in use or as a replacement for melt-in colorants for custom color matches.
- Unsurpassed plate-out performance.
- Simplify your formulations. Eliminate expensive or hard to handle Plate-Out Packages.
- Completely formaldehyde free.
- Faster Processing and cleanup.

TYPICAL PROPERTIES

- Physical Form: Free-flowing prill
- Minimum Processing Temperature: 300°F
- Heat Stability: 550°F
- Melt Index per ASTM D1238: 22g/10 min
- Bulk Density: 41.63 lbs/ft³ (0.67g / cm³)

AVAILABLE COLORS

Corona Magenta™	GPF22	Aurora Pink®	GPF31
Rocket Red™	GPF26	Saturn Yellow®	GPF34
Blaze Orange™	GPF30		

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)

Ver. 20171010

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