



Brilliant Invisible Pigments

BIP SERIES

Brilliant Invisible Pigments are organic and inorganic UV reactive pigments, which are virtually invisible in most applications until excited by either Infrared or UV light. They have varying emissions and considered to be mainly for indoor use due to limited light-fastness. These pigments have **no** afterglow.

Principal Applications

- Tracers
- Flexo and Gravure Inks
- Aqueous and Non-aqueous Systems
- Security Inks

Product Offerings

BIR-RD1	Red emission
Appearance	White powder
Emission Color	Red, under 980nm IR Light
Emission wavelength	610nm+/- 5nm
Specific Gravity	3.0-3.5
Particle Size	<10 micron

BIR-GR1	Green emission
Appearance	White powder
Emission Color	Green, under 980nm IR Light
Emission wavelength	543nm+/- 5nm
Specific Gravity	3.2-3.5
Particle Size	<10 micron

BIP-RD1	Red emission
Appearance	Off White powder
Emission Color	Red, under 365nm UV Light
Emission wavelength	612nm+/- 3nm
Excitation wavelength	365nm UV light
Particle Size	<10 micron
Heat Resistance	up to 285 C

BIP-RD2	Red emission
Appearance	Off White powder
Emission Color	Red, under 365nm UV Light
Emission wavelength	612nm+/- 3nm
Excitation wavelength	365nm UV light
Particle Size	<10 micron
Heat Resistance	up to 180 C

BIP-YE1	Yellow emission
Appearance	Off White powder
Emission Color	Yellowish green, under 365nm UV Light
Emission wavelength	525nm+/- 3nm
Excitation wavelength	365nm UV light
Specific Gravity	3.2-3.5
Particle Size	<10 micron

BIP-YE2	Yellow emission
Appearance	Off White powder
Emission Color	Yellowish green, under 365nm UV Light
Emission wavelength	533nm+/- 3nm
Excitation wavelength	365nm UV light
Specific Gravity	3.2-3.5
Particle Size	<10 micron

BIP-YE3	Yellow emission
Appearance	Off White powder
Emission Color	Yellowish Green, under 365nm UV Light
Emission wavelength	530nm+/- 3nm
Excitation wavelength	365nm UV light
Specific Gravity	3.2-3.5
Particle Size	<10 micron

Notes on use

1. The use of opaque fillers or extenders should be avoided as these may quench luminescent emissions. Also, Invisible Red should not be blended with conventional pigments, although it can be mixed with other invisible pigments, these colors work as additives. The invisible color can be applied over another color in the form of clear lacquer to achieve a different color under UV light.

Confidentiality

Because of the security aspects associated with these products, potential users can be assured that any discussion concerning their specific requirements will be held in the strictest confidence.

Storage: If stored in sealed containers in darkness, the shelf life is 3 years.

Toxicity: Brilliant Invisible Red is generally considered to be of low toxicity.

IMPORTANT: DISCLAIMER OF WARRANTIES AND LIMITATION OF LIABILITY

Technical Information

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