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15 degrees C

BRILLIANT PHOSPHORESCENT PIGMENTS

brilliant BPP Series are inorganic phosphorescent pigments with long afterglow, recommended for applications requiring immediate afterglow with good duration. These pigments are very stable at high temperatures and are resistant to most chemicals.

APPLICATIONS

brilliant BPP Series pigments are designed for use in solvent-based paints, screen inks, plastics, and other applications. For screen printing a minimum mesh size of 43T is required, with a loading level of around 35%. For paint applications, a loading level of about 20% is recommended. For paint and ink applications, the use of a white substrate will help generate the best afterglow effect. Plastics require loadings from 5%, depending on the thickness of the part.

For use in water-based systems, please select our "W" grade versions, available for all shades in the series except red, orange and white. For these shades, the standard grades are acceptable for both water and solvent systems.

DISPERSIONS

brilliant BPP Series pigments can be incorporated into most formulations very easily. It will disperse with high speed stirring. Because of the high specific gravity of the pigments, liquid dispersions should contain suspending agents to reduce hard settling. Due to the abrasive nature of this series, it is recommended that a lubricant should be used during extrusion.

NOTES ON USE

- 1. Milling or grinding should be avoided as this may damage the crystalline structure of the pigment, leading to reduction in luminescent emissions. For this reason, the particle size of the pigment makes it unsuitable for use in thin film applications such as lithographic inks.
- 2. The use of opaque fillers or extenders, as well as conventional pigments should be avoided as these may quench luminescent emissions.
- 3. If the end product is intended for exterior use then its lightfastness should be checked for suitability.

HEALTH AND SAFETY

brilliant. BPP is not radioactive and is generally considered to be of a low toxicity if used and stored as recommended. If stored in sealed containers, the shelf life is indefinite. However contact with strong mineral acids should be avoided as this may lead to the liberation of hydrogen sulphide. Please refer to the separate MSDS for specific information.

	AFTERGLOW INTENSITY					
Particle Size (um)	10 min	60 min	Duration	Shade/Code	Daylight	Afterglow
15-45	170	27	> 6hr	White BPP-WH1006		
10-45	25	1.2	> 6hr	Orange BPP-0G1029		
10-45	25	1.2	> 6hr	Red BPP-RD1051		
15-45	18	3.5	3hr	Purple BPP-PR1026		
23-35	150	13	6hr	Blue BPP-BL1039		
15-45	280	35	> 12hr	Blue-Green BPP-BG1023		
15-40	200	25	10hr	Yellow-Green BPP-YG1001		
5-15	220	29	> 12hr	Yellow-Green BPP-YG1007		
10-30	40	4	> 1hr	Traditional Phosphorescent		
TYPICAL LIGHT SOURCE:						
Excitation illuminance:		Excitation time:		surement standard:	Temperature:	

Din 67 510 Part 1

1000x Ix, D65 standard

10 minutes