H.W. Sands Corp.

Glitter Pigments

Description

H.W. Sands' special effect pigments project the full spectrum of colors with unsurpassed brilliance and clarity. The flexibility and impact of the Glitter Pigments are limited only by your imagination and creativity.

Product Properties

Type	Thickness	Minimum Particle Size
Holographic	33 – 36 µm	100µm x 100µm
Holographic (Silver)	33 – 36 µm	50µm x 50µm
Iridescent	28 – 36 µm	100µm x 100µm
Metallic	15 - 25 µm	50µm x 50µm
Pearlescent	50 µm	100 µm x 100 µm

Square
- 50µm x 50µm
- 100µm x 100µm
- 150µm x 150µm
- 200µm x 200µm

Rectangle
- 50µm x 100µm
- 100µm x 200µm
- 875µm x 100µm
- 1575µm x 325µm
- 3175µm x 325µm

Hexagon
- 200µm
- 375µm
- 625µm
- 1000µm
- 1550µm
- 2385µm

Other Shapes
- 3175µm Stars
- 3175µm Hearts
- 3175µm Daisies
- 3175µm Diamonds

Printing Recommendations

General Considerations

Glitter inks must be printed and dried in a clean environment. Always be sure that the screens, squeegees, knives, spatulas, or any other equipment that comes into contact with the glitter inks are clean and dry, and completely free of all solvents or other matter. In addition, the sensitivity of the inks to high temperatures and specific chemicals should always be considered.

Flexographic Ink

The recommended anilox per particle size:

Particle Size	Anilox
10 – 60 µm	120 – 200 lines / inch
10 – 125 µm	90 – 180 lines / inch

A hard, sticky back should be used; rubber plates with soft durometer and very little nip pressure should be applied. A doctor blade is recommended over a metering roller. If your doctor blade is metallic, the anilox used should be ceramic.

Screen Ink

The screen inks can work on hand or automatic (rotary or flat-bed), sheet or web-fed screen printing equipment. A polyester monofilament screen is recommended. It is preferable to use a medium or medium-hard (65 durometer) rounded edge squeegee.

The recommended screen size per particle size:

Particle Size	Screen Size
50 μm	120 – 170 US mesh
75 μm	80 – 120 US mesh
100 μm	60 – 80 US mesh
150 μm	40 – 60 US mesh
200 μm	25 – 40 US mesh

Please note: the mesh opening should be 1.5 – 2.0 times larger than the pigment.

Recommended Concentrations for Ink, Paint and Plastic Formulations

	Ink/Paint (Solvent)	Ink/Paint (Aqueous)	Plastic Injection/Extrusion
Concentration	10%-20%	10%-20%	N/A

Heat and Drying

Exposure to temperatures above the glitter pigments' distortion temperature can cause loss of effect.

Pigment Type	Distortion Temperature
Holographic	375^oF / 190^oC
Iridescent	225^oF / 107^oC
Iridescent (Heat Resistant)	325^oF / 160^oC
Metallic	350^oF / 177^oC
Pearlescent	300^oF / 149^oC

Storage and Handling

Store at ambient temperatures (20-25°C) out of direct sunlight and away from excessive heat or sources of ignition.

All applications using this product should be thoroughly tested prior to approval for production.

Available Colors

Holographic	Iridescent	Iridescent	Metallic	
Silver	Goldfish Scale	Rainbow Trout	Silver	Lawn Green
Gold	Turtle Shell	Pegasus	Light Gold	Emerald Green
Blue	Cotton Candy	Mist	Dark Gold	Moss Green
Pink	Grape Cluster	Attraction	Red	Reptile Green
Green	Confetti	Jellyfish	Fuchsia	Cornflower Blue
Lavender	Meteor Shower	Fireworks	Royal Blue	Powder Blue
Pearlescent	Starlit Night	Draco	Green	Sky Blue
Dark Red	Chaos	Ruby	Soft Black	Steel Blue
Royal Blue	Black Cherry		Chrome Silver	Royal Blue
Lavender	Fern		Maroon	Blueberry Blue
Salmon	Cherry		Raspberry Red	Prussian Blue
Lime	Lemon-Lime		Lava Red	Navy
	Oxide		Fire Engine Red	Blue Teal
	Mystic		Peach	Midnight Blue
	Algae		Twilight Orange	Periwinkle
	Babbling Brook		Coral	Violet
	Event Horizon		Sienna	Light Violet
	Orchid		Moccasin	Plum
	Solaris		Goldenrod	Pansy Purple
	Molten Lava		Sandy beach	Pink
	Living Coral		Khaki	Girlsnberry
	Flesh		Lemon Yellow	Pale Copper
	Sunlight		Mint Green	Jet Black
	Rainbow Trout		Pink Kiss	White
	Pegasus		Indian Red	Blanched Almond