

Phosphorescent, also referred to as ‘Glow in the Dark’ or ‘Luminescent’, powders are pigments that absorb light and slowly emit a glow over time. The glow is best seen in darkness or under black-light conditions. Depending on the pigment and pigment load in the ink, the glow may last a few minutes or several hours. Nazdar Phosphorescent Pigments are packaged in 1-pound containers and can be used in various UV-curable and solvent-based ink series.

While technical information and advice on the use of this product is provided in good faith, the User bears sole responsibility for selecting the appropriate product for their end-use requirements. Reference the ‘Quality Statement’ at the end of this document.

User Information

Mesh

195-280 tpi (77-110 tpcm) with a mesh opening of 50-80 um monofilament polyester mesh for most applications.

Pigment/Additive Load

Add up to 50% by weight to a clear ink. Phosphorescent powders may be added to most solvent-based and UV ink series.

Powder Glow Color & Duration

Phosphorescent powders are available in a range of colors. The following table outlines each product’s glow color once light-charged duration. The table also outlines the general glow properties per powder as ‘Short’ = several minutes to ‘Long’ = several hours.

Item Number	Glow Color	Glow Duration
SIPI466	Green	Short
SIPI479	Blue	Long
SIPI563	Green	Long

Printing

When inks are to be printed over a phosphorescent color, the overprinting ink(s) must be evaluated for intercoat adhesion before proceeding with the production run. To maximize intercoat adhesion, phosphorescent color should be printed as late as possible in the print sequence.

Pigments settle in the container; prior to printing, thoroughly mix the ink.

Pretest to determine optimum printing performance for a particular set of ink, substrate, screen, press, and curing variables/conditions.

Storage

Store tightly covered at a temperature between 65°-90°F (18°-32°C).

General Information

Ink Handling

Consult the applicable [Safety Data Sheet](#) (SDS / MSDS) for further instructions and warnings.

For assistance on a wide range of important regulatory issues, consult the following Regulatory Compliance Department link at <http://www.nazdar.com> or contact Nazdar Ink Technologies - World Headquarters (see contact listing at the end of this document).

Color Card Materials

Special Effects Color Card (CARDSPL): shows various Phosphorescent Powders mixed with clear and printed 1-layer.

Packaging / Availability

Contact your Nazdar distributor for product availability and offering.

Standard Items

Standard items listed below are inventoried in 1 pound containers.

Phosphorescent Powders

Item Number	Color
SIPI466	Phosphorescent Powder 6SSULB
SIPI479	Lumnva BG 300M Phos PG
SIPI563	Luminova G300M Pho Pig

Nazdar Quality Statement

Nazdar® stands behind the quality of this product. Nazdar® cannot, however, guarantee the finished results because Nazdar® exercises no control over individual operating conditions and production procedures. While technical information and advice on the use of this product is provided in good faith, the User bears sole responsibility for selecting the appropriate product for their end-use requirements. Users are

Nazdar Phosphorescent Powders

also responsible for testing to determine that our product will perform as expected during the printed item's entire life-cycle from printing, post-print processing, and shipment to end-use. This product has been specially formulated for screen printing, and it has not been tested for application by any other method. Any liability associated with the use of this product is limited to the value of the product purchased from Nazdar.

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Nazdar Ink Technologies

Offices Worldwide

Nazdar Ink Technologies -World Headquarters

8501 Hedge Lane Terrace
Shawnee, KS 66227-3290 USA
Toll Free US: 866-340-3579
Tel: +1 913-422-1888
Fax: +1 913-422-2296

E-mail: NazdarOrders@nazdar.com

Technical Support E-mail: InkAnswers@nazdar.com

Nazdar Limited – EMEA

Barton Road, Heaton Mersey
Stockport, England SK4 3EG
Tel: + (44) 0-161-442-2111
Fax: + (44) 0-161-442-2001

UK Technical Service E-mail: technicalservicesuk@nazdar.com

Nazdar – Asia Pacific

11 Changi North Street 1 #03-03/04
Singapore 498823
Tel: +65-63854611
Fax: +65-65433690

E-mail: aspac@nazdar.com

Screen Ink Additive