
Nazdar 270 Series is a general graphics/product print ink set designed for UV-LED curing with ambient temperature controlled printheads such as Ricoh GH2220 and Epson DX7.

Features

- Low viscosity inks designed for machines that do not require an ink that must be heated to jet at a given specification i.e. Ricoh GH2220 or Epson DX7
- Displays market acceptable surface cure under UV-LED curing
- Designed to have a low odor*
- Long term exterior performance with proven resistance to the effects of UV degradation and color fade
- Adhesion on a variety of flexible and rigid substrates with a high attraction to vinyl and polycarbonate

* Odor will vary to one's sensitivity or opinion. The components used in the chemistry are industry marketed low odor components

Substrates

- Reinforced vinyl banner and pressure sensitive vinyl
- Styrene
- Sintra
- Foamboard
- Polycarbonate

Adhesion should always be tested as adhesion does depend upon curing conditions, age, and manufacturer of substrate. Adhesion may be improved when the substrate is cleaned with a suitable solvent such as isopropanol.

Particle Size

The average particle size of the finished ink is .3 micron. All batches of ink are formulated and tested to be less than 1 micron.

Surface Tension

Surface Tension is read with a DuNouy Ring device at 25° C (Huh-Mason mN/m). The surface tension naturally varies within our min/max tolerances from color to color.

- Min: 32 dynes/cm
- Max: 36 dynes/cm

Curing Parameters

Nazdar® LED270 Series inks are formulated to cure when exposed to a LED light source in the 395 nanometer range with output of at least 4 watts/cm².

Viscosity

When printing at ambient temperature, maintaining a jetting temperature of 25°C -30°C is recommended. Maintaining a constant printhead temperature is recommended for optimal jetting performance.

Ink Handling

All personnel mixing and handling these products must wear gloves and eye protection. Clean up all spills immediately. If ink does come in contact with skin, wipe ink off with a clean, dry cloth (do not use solvent or flush solution). Wash the affected area with soap and water.

Clean Up

For clean-up of ink spills and equipment use Nazdar UV Maintenance Solution. Avoid contact with skin. Wear approved safety glasses and appropriate gloves when using Maintenance Solution.

Environmental Operating Parameters

Temperature:

- 66 ° F – 80 ° F [19 ° C – 27 ° C]

Humidity:

- Optimum: 40% - 60% (non-condensing)
- Operational: 30% - 70% (non-condensing)

Storage/Shelf Life

Store ink and flush solutions at 18° - 32° C (65° - 90° F). If stored at a different temperature, the ink should be allowed to reach room temperature before calibration or printing. The shelf life of this

Nazdar 270 Series UV-LED Inkjet Ink



product is 12 months† from the date of manufacture when stored under prescribed conditions.

† White, when packaged in a cartridge has a shelf life of 6 months from the date of manufacturing when stored under prescribed conditions.

Outdoor Durability

LED270 are formulated to provide 2 years outdoor durability when mounted vertically in the Central U.S.A. Outdoor durability cannot be specified exactly. Slight color change and loss of gloss should be expected. Variables affecting a printed part's durability include:

- Ink film thickness and degree of curing
- Substrate type and age
- Mounting angle and directional orientation
- Geographical location
- Excessive abrasion

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 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 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 digital printing, and it has not been tested by any other method. Any liability associated with the use of this product is limited to the value of the product purchased from Nazdar®.

Based on information from our raw material suppliers, these products are formulated to contain less than 0.06% lead. If exact heavy metal content is required, independent lab analysis is recommended.

Manufacturers Product Offering

All colors listed in the table below are available in 1 liter and 220cc cartridge options.

Available Colors

Item Number	Color
LED270CY	Cyan
LED270MA	Magenta
LED270YE	Yellow
LED270KK	Black
LED270CL	Light Cyan
LED270ML	Light Magenta
LED270WH	White
LED270NC	Clear

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