Product Description

3M™ Piezo Inkjet Series 8900UV Ink is part of 3M's system of matched components for imaging with Durst Rho 163 TS/HS and EFI™ H1625-RS printers. These UV-curable inks are durable, transparent, weather-resistant, and engineered to optimize digital imaging of traffic control signs that are exposed vertically in service.

The ink is available in the following colors:

Table A. Product Codes by Color

Ink Color	EFI H1625-RS Product Code	Durst 163 TS/HS Product Code
Blue	8903UV v3	8953UV v3
Black	8905UV	8955UV
Red	8922UV	8972UV
Yellow	8924UV	8964UV
Magenta	8915UV	8965UV
Cyan	8916UV v2	8966UV v2

Specifications

3M™ Diamond Grade™ DG^3 Reflective Digital Sheeting 4000UDS Series, 3M™ High Intensity Prismatic Reflective Digital Sheeting 3930UDS Series, or 3M™ Advanced Flexible Engineer Grade Reflective Sheeting Series 7300 imaged with 3M™ Piezo Inkjet Series 8900UV Inks and overlaminated with 3M™ ElectroCut™ Film 1170C (“1170C”) or 3M™ Premium Protective Overlay Film Series 1160i.2 (“1160i.2”) conforms to current specifications of ASTM D4956 for their respective sheeting types. Digitally printed transparent traffic color (red, blue, green, yellow, purple, orange and brown) areas on white sheeting shall not be less than 70% of the value of the coefficient of retroreflection (R_A) as defined in ASTM D4956, for the respective sheeting type and corresponding color. Refer to the printer specific 3M™ MCS™ Warranty Matrices for further details regarding retroreflectivity minimums over the warranty period.

System of Matched Components

See the 3M™ Sign Warranty Bulletin for a complete list of matched components.

Disclaimers

Except for 3M branded products, 3M does not represent that any printer or printer accessory recommended in 3M literature will meet customer requirements, any federal, state, or local regulations, or any applicable safety standards. Such determination is the responsibility of the printer owner. For a buyer's convenience, 3M may provide engineering or technical information, recommendations, certifications, and other information or materials relating to other company's products (“Other Information”), but 3M does not warrant Other Information, including but not limited to its accuracy or completeness.

Imaging

Ink may be used to produce traffic signs using the imaging methods described below. Compatibility is backed with a 3M™ MCS™ Warranty or 3M™ MCS™ Warranty for Traffic when users follow the printing guidelines referenced in the “Literature References” section on page 2. See the “Warranty Information” section on page 3 for more information regarding warranties. 3M assumes no responsibility for the failures of Sign face legends or backgrounds that have not been processed according to the 3M™ Sign Warranty Bulletin.

Digital Imaging

Inks are compatible with Durst Rho 163 TS/HS and EFI™ H1625-RS printers and 3M™ Diamond Grade™ DG^3 Reflective Digital Sheeting 4000UDS Series, 3M™ High Intensity Prismatic Reflective Digital Sheeting 3930UDS Series, and 3M™ Advanced Flexible Engineer Grade Reflective Sheeting Series 7300. See 3M Information Folder 1.19 and 3M Information Folder 1.20. Use of 3M™ ElectroCut™ Film 1170C or 3M™ Premium Protective Overlay Film Series 1160i.2 is required.

Printing Recommendation for Traffic Signage

Printer set-up and maintenance is critical for achieving good image quality and ensuring proper sheeting processing. Please follow the printer setting recommendations provided by the printer manufacturer during printer installation, as they are required as part of 3M's system of matched components to produce traffic signs. Follow all operation and maintenance procedures recommended in the printer's user manual.

Shelf Life and Storage

Shelf Life

Series 8900UV inks have a shelf life of one year from the date of manufacture.

Storage Conditions

- 32°F to 80°F (0°C to 26.7°C)
- Original container during both storage and use
- Properly sealed when not actively removing ink from the container

3M Related Literature

- 3M Information Folder 1.19 Digital Imaging with Durst 163TS Printers on 3M™ Reflective Sheeting
- 3M Information Folder 1.20 Digital Imaging with EFI H1625 RS Printers on 3M™ Reflective Sheeting
- 3M Product Bulletin 1160i.2 3M™ Premium Protective Overlay Film Series 1160i.2
- 3M Product Bulletin 1170C 3M™ ElectroCut™ Film 1170C Clear
- 3M Product Bulletin 7300 3M™ Advanced Flexible Engineer Grade Reflective Sheeting Series 7300
- 3M Product Bulletin 3924SUDS 3M™ Diamond Grade™ Fluorescent Work Zone Digital Sheeting Series 3924SUDS
- 3M Product Bulletin 3930UDS 3M™ High Intensity Prismatic Reflective Digital Sheeting Series 3930UDS
- 3M Product Bulletin 4000UDS 3M™ Diamond Grade™ DG^3 Reflective Digital Sheeting Series 4000UDS
- 3M Product Bulletin Slipsheeting
- 3M™ Sign Warranty Bulletin
- 3M™ MCS™ Warranty for Traffic Selector

ASTM Test Methods are available from ASTM International, West Conshohocken, PA.

Health and Safety

Chemicals

When handling any chemical products, read the manufacturers' container labels and the Safety Data Sheets (SDS) for important health, safety, and environmental information.

Follow this link to obtain SDS sheets for 3M products.

Follow this link to obtain information about substances of very high concern (SVHC) for EU products.

Tools and Equipment Usage

When using any equipment, always follow the manufacturer's instructions for safe operation.

Warranty Information

3M Standard Warranty

The Product is warranted ("**3M Standard Warranty**") to be free of defects in materials and manufacture at the time of shipment and to meet the specifications stated in this product bulletin. If the Product is proven not to have met the Basic Warranty on its shipment date, then a buyer's exclusive remedy, and 3M's sole obligation, at 3M's option, will be refund or replacement of the Product.

3M™ MCS™ Warranty and MCS Warranty for Traffic

For warranties applicable to this product refer to the 3M™ MCS™ Warranty for Traffic Selector and the 3M™ MCS™ Warranty for Traffic Selector.

Technical Information

Technical information, guidance, and other statements provided by 3M are based upon records, tests, or experience that 3M believes to be reliable, but the accuracy, completeness, and representative nature of such information is not guaranteed. Such information is intended for people with knowledge and technical skills sufficient to assess and apply their own informed judgment to the information. No license to any intellectual property rights is granted or implied with respect to this technical information.

Product Selection and Use

Many factors beyond 3M's control and uniquely within user's knowledge and control can affect the use and performance of a 3M product in a particular application. Customer is solely responsible for evaluating the product and determining whether it is appropriate and suitable for customer's application, including conducting a workplace hazard assessment, reviewing all applicable regulations and standards, and reviewing the product label and use instructions. Failure to properly evaluate, select, and use a 3M product in accordance with instructions or to meet all applicable safety regulations may result in injury, sickness, death, and/or harm to property.

Warranty, Limited Remedy, and Disclaimer

Unless a different warranty is specifically stated on the applicable 3M product packaging or product literature (in which case such warranty governs), 3M warrants that each 3M product meets the applicable 3M product specification at the time 3M ships the product. 3M MAKES NO OTHER WARRANTIES OR CONDITIONS, EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, ANY WARRANTY OR CONDITION OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, OR ARISING OUT OF A COURSE OF DEALING, CUSTOM, OR USAGE OF TRADE. If a 3M product does not conform to this warranty, the sole and exclusive remedy is, at 3M's option, replacement of the 3M product or refund of the purchase price.

Limitation of Liability

Except for the limited remedy stated above, and except to the extent prohibited by law, 3M will not be liable for any loss or damage arising from or related to the 3M product, whether direct, indirect, special, incidental, or consequential (including, but not limited to, lost profits or business opportunity), regardless of the legal or equitable theory asserted, including, but not limited to, warranty, contract, negligence, or strict liability.

Additional Limitations

See the 3M™ Sign Warranty Bulletin for terms, additional limitations of your warranty, if any, and limitations of liability.

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