

Transportation Safety Division

3M™ Piezo Inkjet Series 8900UV Ink

Product Bulletin Series 8900UV

May 2018

1 Description

3M[™] Piezo Inkjet Series 8900UV Ink is designed as part of 3M's systems of matched components for application with Durst 163TS and EFI H1625-RS Wide Format Inkjet Printers onto 3M High Intensity Prismatic Digital Sheeting 3930DS, 3M Diamond Grade[™] DG3 Prismatic Digital Sheeting 4090DS, or 3M Advanced Engineer Grade Prismatic Sheeting Series 7930. These UV-curable inks are durable, transparent, weather-resistant, and have excellent color retention when used in combination with the appropriate recommended 3M system of matched components.

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

2 General Performance Considerations

The durability of 3M reflective sheeting will depend upon substrate selection and preparation, compliance with recommended application procedures, geographic area, exposure conditions, and maintenance. Maximum durability can be expected in applications subject to vertical exposure on stationary objects when processed and applied to properly prepared aluminum according to 3M recommendations provided in Information Folder 1.7. The user must determine the suitability of any nonmetallic sign backing for its intended use. Applications to unprimed, excessively rough or non-weather-resistant surfaces, or exposure to severe or unusual conditions can shorten the performance of such applications.

Signs in mountainous areas that are covered by snow for prolonged periods may also have reduced durability. Atmospheric conditions in certain geographic areas may result in reduced durability. Important Notice: This product bulletin provides technical information only. The user must determine the suitability of the product for its required or intended use, and the user assumes all risk and liability whatsoever in connection herewith.

3 Disclaimer

With the exception of 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.

4 Environmental, Health and Safety

A CAUTION: When handling any chemical products, read the manufacturers' container labels and the Safety Data Sheets (SDS) for important health, safety and environmental information. To obtain SDS sheets for 3M products, go to 3M.com/SDS, or by mail, or in case of an urgent need, call 1-800-364-3577.

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

5 Printing Guidelines

Please follow the recommendations below for best results.

Selecting, Preparing & Using 3M Retroreflective Sheeting

Do not use damaged rolls of sheeting, which can result in head strikes and printer damage. Condition the sheeting, ink and overlaminate for 24 hours in the same environment as the printer before using.

Printing Recommendations for Traffic Signage

Printer set-up is critical to achieve good image quality and to ensure proper sheeting processing, including UV cure dose. Please follow the printer setting recommendations provided during printer installation by your 3M Technical Service representative, as they are required as part of 3M's system of matched components for the production of traffic signs.

Operation and Maintenance Procedures

Printer cleanliness is very important in the production of high quality signs and graphics. Follow all operation and maintenance procedures recommended in the printer's user manual.

Application of Overlaminate

To avoid a silvering artefacts (trapped air between ink layer and overlaminate), the lamination process should be conducted under a controlled set of conditions. Recommended laminator specifications and setup:

Roll diameter: max. 350 mm Roll weight: approximately 80 kg Roll width: 1400 - 1600 mm

Core size: 3 inches

2 Take-up shafts and 2 Supply shafts

Heat able top roller: min. 45°C Pressure: > 0,8 N/mm²

Speed: 1m/Minute

6 Ink Shelf Life and Storage

Use inks within one year of date of manufacture. Leave the ink in the original container during both storage and use to prevent exposure to light. Light can cause the UV ink to cure prematurely and damage the printer. Store at temperatures between 32° to 80° F.

7.1 Literature References

Before starting any job, be sure you have the most current Product and Instruction Bulletins.

Product Bulletin Series Number	Link	
PB 1140	3M Protective Overlay Film 1140	
PB 3930DS	3M™ High Intensity Prismatic Digital Sheeting 3930DS	
PB 4090DS	3M™ Diamond Grade™ DG3 Prismatic Digital Sheeting 4090DS	
PB 7930	3M TM Advanced Engineer Grade Prismatic Sheeting Series 7930	
PB 1170	3M™ ElectroCut™ Film Series 1170	
IF 1.7	3M™ Reflective Sheeting Sign Base Surface Preparation	
IF 1.11	3M™ Reflective Sheeting Sign Maintenance Management	

7.2 Warranty Information

3M Basic Product Warranty

3M™ Piezo Inkjet Series 8900UV Ink ("Product") is warranted ("Basic 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, MCS Warranty for Traffic, and Limited Remedy

For the MCS Warranty, MCS Warranty for Traffic, and limited remedies applicable to the Product, refer to the 3M™ Digitally-Imaged Sign Warranty Bulletin.

8.3 Limitations of Liability

3M WILL NOT UNDER ANY CIRCUMSTANCES BE LIABLE TO A BUYER FOR DIRECT (other than the applicable Limited Remedy previously stated), SPECIAL, INCIDENTAL, INDIRECT OR CONSEQUENTIAL DAMAGES (INCLUDING, WITHOUT LIMITATION, LOSS OF PROFITS) IN ANY WAY RELATED TO A PRODUCT OR THIS PRODUCT BULLETIN, REGARDLESS OF THE LEGAL OR EQUITABLE THEORY ON WHICH SUCH DAMAGES ARE SOUGHT.

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

8.4 Health and Safety Information

Read all health hazards, precautionary, and first aid statements found in the Material Safety Data Sheet, and/or product label prior to handling or use.

8.5 Other Product Information

Always confirm that you have the most current version of the applicable product bulletin, information folder or other product information from 3M's Website at http://www.mmm.com/tss.

Important Notice to Purchaser

All statements, technical information and recommendations herein are based on tests we believe to be reliable, but the accuracy or completeness thereof is not guaranteed. Before using, user shall determine the suitability of the product for its intended use, and user assumes all risk and liability whatsoever in connection therewith. All questions of warranty and liability relating to this product are governed by the terms of the sale subject where applicable to the prevailing law. No statement or recommendation not contained herein shall have any force or effect unless in an agreement signed by officers of seller and manufacturer.

For Further Assistance

For help on specific questions relating to 3M[™] reflective products, please contact your local 3M Application Engineer or contact:



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