



Piezo Ink Jet Ink Series 6800

For Océ Arizona 180 Printer

Description

3M™ Piezo Ink Jet Ink Series 6800 is a pigmented, solvent based ink approved for use with the Océ Arizona 180 Printer with improved performance on film, for even better looking piezo ink jet graphics.

About Changing Ink Series

Ink series 6800 replaces both ink series 6700 and 3700. Contact your Océ representative to perform the conversion from one ink series to another; your printer may require a new capping station (burnt orange color) in order to use ink series 6800. Do not mix inks from different series in the same printer. Use up your existing inventory of ink series 6700 or 3700 before switching to the new inks. The warranties for finished graphics do not change.

Applications and End Uses

Refer to a film or banner material's product bulletin to determine the suitability of that product for your intended application.

Product Line

No.	Color
6891	Magenta
6892	Yellow
6895	Black
6896	Cyan
6881	Light Magenta
6886	Light Cyan

More Information on the Web

Find out more about piezo ink jet printing, including software profiles that help ensure successful printing, by visiting our website at www.scotchprint.com. Then click on *business partner login*, which is located under the Scotchprint® logo.

To enter the *business partner login* area, you must be a Scotchprint® Graphics Authorized Manufacturer or 3M Piezo Ink Jet Registered Fabricator. If you are not, please contact your 3M sales representative.

Compatible Products for Warranted Graphics

For details on using these compatible products for piezo ink jet printing, please refer to the base film or substrate Product Bulletin.

4 mil Films

- 3M™ Controltac™ Plus Graphic Film RG160-10
- 3M™ Controltac™ Plus Graphic Film RG160C-10
- 3M™ Controltac™ Plus Graphic Film Series RG162
- 3M™ Scotchcal™ Removable Graphic Film RG3470
- 3M™ Scotchcal™ Changeable Graphic Film RG3555
- 3M™ Scotchcal™ Perforated Window Graphic Film RG8171

2 mil Films

- 3M™ Controltac™ Plus Graphic Film RG180-10
- 3M™ Controltac™ Plus Graphic Film with Comply™ Performance RG180C-10
- 3M™ Scotchcal™ Graphic Film RG3630-20
- 3M™ Scotchcal™ Graphic Film RG3650-114

Reflective Films

- 3M™ Scotchlite™ Removable Reflective Graphic Film with Comply™ Performance RG680CR-10
- 3M™ Scotchlite™ Plus Flexible Reflective Graphic Film RG680-10
- 3M™ Scotchlite™ Changeable Graphic Film RG5100

Banner Materials

- 3M™ Banner Material RG8450
- 3M™ Single-Sided Banner Material RG8451
- 3M™ Banner Material RG8452

Note: Films with the RG designation indicate that the material is reverse-wound onto the core for use on the Arizona printer.

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Note: For the full product names of the 3M products listed on this page, please see page 1.

Overlaminates and Clear Coats

- 3M™ Screen Print Gloss Clear 1920DR
- 3M™ Scotchlite™ Screen Print Gloss Clear 2920DR
- 3M™ Screen Print Gloss Clear IJ9720UV
- 3M™ Scotchcal™ Luster Overlamine 3645
- 3M™ Scotchcal™ Luster Overlamine 8519
- 3M™ Scotchcal™ Matte Overlamine 8520
- 3M™ Scotchcal™ Luster Overlamine 8908
- 3M™ Scotchcal™ Matte Overlamine 8909
- 3M™ Scotchcal™ Optically Clear Overlamine 8914 ES

Application Tapes

- 3M™ Prespacing Tape SCPS-2, SCPS-55
- 3M™ Premasking Tape SCPM-3, SCPM -44X

Effective Performance Life

Only a Scotchprint® Graphics Authorized Manufacturer or 3M Piezo Ink Jet Registered Fabricator can produce 3M™ MCS™ Warranted Graphics.

For complete details on warranted constructions, please refer to the film or banner material's product bulletin. See 3M Related Literature, page 3, for information on how to obtain these bulletins.

Printing with Solvent-Based Piezo Ink Jet Inks

To get the durability given in the Effective Performance Life, follow the guidelines and procedures in Instruction Bulletin 4.40 for printing with piezo ink jet ink series 6800.

Be sure the operator reads and follows "Understanding Printing with Solvent-Based Piezo Ink Jet Inks," also in Instruction Bulletin 4.40. An operator who understands pre-press operations and the relationship between film characteristics, printer setup, total ink coverage and drying time can produce graphics that achieve the performance expectations of the film and the customer. The operator should also work with the graphic designer and/or color conversion operator so there is a common understanding of print and media parameters.

Total Ink Coverage

Do not exceed the total ink coverage recommended for the film (see the film's Product Bulletin or Instruction Bulletin 4.40). Too high a total physical ink amount on the film results in media characteristic changes, inadequate drying, overlamine lifting, and/or poor graphic performance.

Drying

Caution

Always build enough time into your process to ensure adequate drying of the graphic. Poorly dried film may become soft and stretchy, and the adhesive may become too aggressive. This can cause difficulty when applying an overlamine, rolling the graphic, and applying the film. See Instruction Bulletin 4.40 for more details.

About Scotchlite Reflective Graphic Film

Ink series 6800 can be used with approved Scotchlite films; however, ink series 6800 is semi-transparent and may reduce the retroreflectivity of the film.

Close color matching of multi-sheet graphics is difficult on retroreflective materials because production lots may vary. Adjoining panels of reflective graphic film must be checked for both daytime and nighttime appearance.

Maintenance and Cleaning

Use a cleaner such as the kind used for high-quality painted surfaces. The cleaner must be wet, non-abrasive, without strong solvents and have a pH value between 3 and 11 (neither strongly acidic nor strongly alkaline.)

Printer Cleaning and Routine Printer Maintenance

Printer cleanliness is very important in the production of high quality, full color graphics. You must follow the routine maintenance schedule in the Arizona User's Guide.

We recommend that each customer assign a master operator that will have maintenance responsibilities. This person will be trained by a technician during printer installation and must use the recommended methods and safety measures.

You will need a thinner/cleaner that is compatible with the ink in the printer for performing normal printer maintenance.

Shelf Life, Storage and Shipping

- Store piezo inks in their original packaging.
- Store the inks at 32° to 95°F (0° to 35°C).
- Use the ink within one year of purchase.
- Ink series 6800 is classified as non-hazardous by the Department of Transportation. The inks are non-regulated when transported via ground and air.

Health and Safety

Caution

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

To obtain MSDS sheets for 3M products:

- By fax, call 1-800-364-0768 in the US and Canada or 1-650-556-8417 for all other locations.
- Electronically, visit us at <http://www.3m.com/msds>.
- By mail, or in case of an emergency, call 1-800-364-3577 or 1-651-737-6501.

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

Ventilation

Provide local and/or general exhaust ventilation in the print drying areas to prevent a buildup of solvent vapors and to maintain levels of solvents below the limit for worker exposure. An experienced industrial ventilation engineer and/or a certified industrial hygienist can help evaluate your ventilation requirements and design based on your site process conditions. Océ Display Graphics Systems, the printer's manufacturer, also provides ventilation information. Please refer to their literature also.

Note: Additional environmental, health and safety information is available in EHS Bulletin 6800, which is available on the Scotchprint® Graphics Network (Extranet site). See page 1 for how to access this site.

Warranty and Limited Remedy

The following is made in lieu of all other express or implied warranties, including any implied warranty of merchantability or fitness for a particular purpose: 3M™ Piezo Ink Jet Ink Series 6800 is warranted to be free of defects in materials and manufacture at the time of shipment and to meet the specifications stated in this Product Bulletin. 3M will replace or refund the price of any 3M materials that do not meet this warranty within the specified time periods. See the worldwide 3M™ MCS™ Warranty bulletin, which gives the terms and limitations of the warranty.

These remedies are exclusive. In no case shall 3M be liable for any direct, indirect, or consequential damages, including any labor or non-3M materials charges.

3M Related Literature

Before starting any job, be sure you have the most recent product and instruction bulletins.

Listed below is related 3M technical literature that may be of interest. You may view and print these Bulletins from our Web site at www.scotchprint.com, or order them via our Fax-on-Demand (FOD) system. Call one of these phone numbers to order the desired bulletins, and specify the FOD document number provided in the chart.

United States or Canada: 1-800-364-0768
International: 1-651-732-6506

Subject	Bulletin No.	FOD No.
Product Bulletins		
3M™ Banner Material RG8450	RG8450	4514
3M™ Single Sided Banner Material RG8451	RG8451	4551
3M™ Banner Material RG8451	RG8452	4571
3M™ Controltac™ Plus Graphic Film RG160-10	RG160-10	4558
3M™ Controltac™ Plus Graphic Film with Comply™ Performance RG160C-10	RG160C-10	4577
3M™ Controltac™ Plus Graphic Film Series RG162	RG162	4523
3M™ Controltac™ Plus Graphic Film RG180-10	RG180-10	4518
3M™ Controltac™ Plus Graphic Film with Comply™ Performance RG180C-10	RG180C-10	4555
3M™ Scotchlite™ Removable Reflective Graphic Film with Comply™ Performance RG680CR-10	RG680CR-10	4554
3M™ Scotchlite™ Plus Flexible Reflective Graphic Film RG680-10	RG680-10	4522
3M™ Scotchcal™ Graphic Film RG3470	RG3470	4516
3M™ Scotchcal™ Changeable Graphic Film RG3555	RG3555	4548
3M™ Scotchcal™ Translucent Graphic Film RG3630-20	RG3630-20	4520
3M™ Scotchcal™ Graphic Film RG3650-114	RG3650-114	4519
3M™ Scotchlite™ Changeable Reflective Graphic Film RG5100	RG5100	4553
3M™ Scotchcal™ Perforated Window Graphic Film RG8171	RG8171	4517

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Subject	Bulletin No.	FOD No.
3M™ Scotchcal™ Luster Overlamine 3645	3645	1508
3M™ Scotchcal™ Overlamine 8519 and 8520	8519/8520	4524
3M™ Scotchcal™ Luster Overlamine 8908 ES	8908	3554
3M™ Scotchcal™ Matte Overlamine 8909 ES	8909	3565
3M™ Scotchcal™ Optically Clear Overlamine 8914 ES	8914	3542
3M™ Screen Printing Ink Series 1900	1900	2501
3M™ Scotchlite™ Screen Printing Ink Series 2900	2900	2512
3M™ Screen Printing Ink Series 9700UV	9700	2507
Instruction Bulletins		
Design of graphics	2.1	5501
Printing with piezo ink series 6800	4.40	6540
Screen printing with ink 1900	3.11	6011
Screen printing with ink series 9700 UV	3.4	6004

Subject	Bulletin No.	FOD No.
Screen printing with line ink series 2900	3.18	6018
Making backlit signs with piezo printed film	4.26	6526
Making digitally imaged, single and double-sided promotional banners	4.15	6515
Making backlit signs with piezo printed films	4.26	6526
Using 3M application tapes; premasking and prespacing for films	4.3	6503
Cold roll lamination	4.22	6522
Scoring and cutting	4.1	6501
Application, substrate selection, preparation and substrate-specific application techniques	5.1	7001
Application, special applications and vehicles	5.4	7004
Application, general procedures for interior and exterior dry applications	5.5	7005
Applying 3M graphic films with Comply™ Performance	5.31	7031
Storage, handling, maintenance, removal	6.5	8505

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Health & Safety

Refer to the package label and the Material Safety Data Sheet for health, safety, and handling information on the products referenced in this bulletin. For 3M products, if necessary, you may contact our Toxicology/Product Responsibility Department on 01344 858000.

Important Notice to Purchaser

The 3M products described in this publication are covered by a 3M warranty and limitation of liability.

3M's warranty provides that if 3M finds that goods are defective in material or workmanship they will be replaced or the price refunded at 3M's option but note that 3M does not accept liability for other direct losses (except for personal injury or death) or consequential losses relating to defective products or from information supplied by 3M.

Purchasers and users of 3M products, and not 3M supplying companies, are always solely responsible for deciding on the suitability of the 3M product for their required or intended use.

Technical Assistance

For help on specific questions relating to 3M Commercial Graphics Division Products, contact your local Technical Service Representative.

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