



Scotchlite™

Transparent Screen Printing Ink Series 2900

Product Replacement Note

3M™ Scotchlite™ Transparent Screen Printing Ink Series 2900 replaces 3M™ Scotchlite™ Screen Printing Ink Series 1900.

Description

3M™ Scotchlite™ Transparent Screen Printing Ink Series 2900 are high performance inks formulated for use on selected 3M™ Scotchlite™ Reflective Graphic Films. When used according to 3M recommendations, these inks allow the reflective properties of the graphic films to be seen, except when using black.

Advantages

- High performance, fast drying ink system
- Weather resistant, with excellent colour retention
- Superior exterior performance on difficult application surfaces, including corrugated and riveted surfaces

Applications and Uses

Ink series 2900 is formulated for use on selected 3M graphic films. These inks are intended only for use with the listed Compatible Products and the following applications. These types of applications are warranted by the 3M™ MCS™ Warranty.

- For multicolour graphics
- For graphics used in a petroleum environment where staining is not a concern
- For graphics applied to flat or corrugated surfaces, with and without rivets

Limitations of End Uses

We do not normally warrant other applications, but please contact us to discuss your needs or let us suggest other 3M products.

Specifically, we do not warrant this ink for the following:

- Graphics that have overprint clear 9720UV and are applied to transit-mix cement trucks or other vehicles frequently washed with concentrated, strong acids or aluminum brighteners. Such graphics that have overprint clear 1920DR are warranted.

- Graphics that fade, crack, peel, lift or discolour due to abrasion or staining from cleaning solutions, engine fuels, exhaust, or organic solvents.

Compatible Products

Note: For films not listed here, check the film's Product Bulletin for compatibility with ink series 2900.

Films

- 3M™ Scotchlite™ Reflective Graphic Films
- Series 680 and Films 680-10CM

Other Films

Ink series 2900 can be used on other 3M vinyl films, when a transparent colour is required

Product Line

Line Colour Transparent Ink

Product	Colour
2905	Black ²
2906	Orange
2908	Green
2910	Blue
2912	Red
2913	Maroon
2914	Yellow
2915	Cyan
2916	Blue Violet
2922	Lemon Yellow
2923	Magenta
Overprint Clear	
1920DR	Dirt Resistant Overprint Clear
4430R	Petroleum Resistant Overprint Clear
9720 UV	UV Cured Overprint Clear
3M™ Thinners	
2907	Toner
3M™ Thinners	
	CGS-30
	CGS-50
	CGS-80 ¹

¹ The higher the CGS number, the slower the evaporation rate.

² Black ink is opaque, not translucent.

Effective Performance Life

Refer to the appropriate film Product Bulletins for the effective performance life of the various combinations of inks, films, processing methods and overprint clear. Processing conditions can affect the durability of the ink. Carefully follow all instructions in the Instruction Bulletins.

Notes

- A compatible overprint clear is required for all graphics printed with ink series 2900.
- If the colour of a printed ink is matched to the colour of a pigmented film, the finished ink and film may not maintain the same colour or gloss after being exposed outdoors.

Sheet Preparation

Film

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

Follow the recommendations in Instruction Bulletin 2.1 to minimize within-lot and crossweb variation. Reflective film 680-10CM is available already colour matched.

Screen Printing

For ink preparation and screen printing details, see Instruction Bulletin 3.18.

Line Colours

The line colours and overprint clears from ink series 2900 must be thinned to reach the desired viscosity

Under typical conditions with line inks thinned to press-ready viscosity and using a 90T screen mesh, the approximate coverage is 30 to 45 m² per litre.

Overprint Clear

One litre of unthinned overprint clear will cover approximately 60sqm when thinned to print viscosity, and printed through a 90T screen. Use of less than recommended usage of overprint clear can result in shortened durability.

Application Tape

See the film's Product Bulletin and Instruction Bulletin 4.3 for details on selecting and using application tape.

Shelf Life, Storage and Shipping

Screen Printing Ink Series 2900

- Store the inks at 0° to 32°C (32° to 90°F).
- Use the ink within 1 year of purchase.
- Store the inks in the original container.

Finished Graphic

- Be sure the ink and the overprint clear are dried before packaging the finished graphic.
- Ship the finished graphic lying flat or rolled. To roll, wrap the graphic, film-side out, onto a core that is 13 cm (5 inches) or larger in diameter. These methods help to prevent the liner and premask from wrinkling or popping off.
- Put a slip sheet, such as 3M™ Easy Release Liner SCW-33, on the printed side of the following types of graphics:
 - a graphic that is pre-mounted on panels
 - panels that have graphics on both sides
 - a liner that is printed by the printer
- Store the graphics in a clean, dry area.
- Store the graphics out of the direct sunlight and at a temperature less than 38°C (100°F).
- The combined shelf life of processed and unprocessed film cannot exceed 2 years from the date you receive the film. However, the film must be used within 1 year of processing even if the combined shelf life is less than 2 years.

3M Related Literature

Subject	Bulletin No.
Instruction Bulletins	
Screen printing with ink series 2900 - line colour	3.18
Using 3M application tapes; premask and prespace for films	4.3
Storage, handling, maintenance, removal	6.5
Warranties	
Worldwide 3M^ä MCS™ Warranty Packet (includes all Commercial Graphics MCS Warranties)	

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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