

Traffic Safety and Security Division

3M™ Conspicuity Marking Series 957/957S

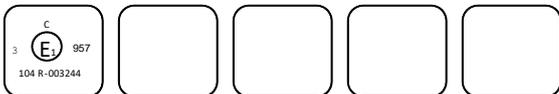
Product Bulletin Series 957/ 957S

November 2017

1 Description

Advantages

- Durable, flexible, microprismatic, retroreflective sheeting
- For applications on soft sided vehicles
- Excellent angularity in both horizontal and vertical
- Easy to apply
- Up to 3 years exterior durability
- Sheeting resists fuel vapors or occasional spills
- 957S is the segmented version



Application and Uses

3M™ Conspicuity Marking Series 957 for Curtain Sided Vehicles is designed to mark the side and rear perimeter of trucks and trailers for enhanced visibility and detection.

ECE Regulation

Series 957 is approved as Retro-Reflective Markings for Vehicles of Category M, N and O according to ECE regulation No. 104 Class C. Application and use of Series 957 on vehicles is regulated in ECE regulation No. 48.

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 sheeting for the application on digitally printed canvas protected by a waterbased clear coat. Individual adhesion tests might be carried out in order to prevent adhesion failures.

Property	Description
Number and color	957 -10 White
	-71 Yellow
	-72 Red

2 Characteristics

Property	Description
Adhesive color and type	Clear, Pressure Sensitive
Liner	Opaque paper
Application substrates	3M approved canvas, not older than 6 months
Application temperature range for air and substrate	10°C to 30°C
Thickness without liner and premask tape	0,2 mm
Performance range	-35°C to +65°C

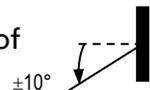
3 General Performance Characteristics

The durability of Marking Series 957 depends on the following:

- Selection, preparation and temperature of the substrate
- Application methods
- Cleaning and maintenance methods
- Exposure conditions

Warranted Durability

The sheeting is warranted for 36 months when used as vehicle marking and the exposure of the face is vertical at $90^\circ \pm 10^\circ$.



Customer right

In Europe 3M warrants for a period up to 36 months from date of application (concrete definition of the period is subject to the terms of sale) that Conspicuity Marking Series 957 sold by 3M to be used on 3M approved canvas for vehicle markings is free of defects in material and workmanship, subject to the following provisions:

If Conspicuity Marking Series 957 is processed and applied to a vertical $\pm 10^\circ$ surface in accordance with all 3M application and fabrication procedures provided in 3M's product and information bulletins, technical memos (which will be furnished to the agency upon request), including the exclusive use of 3M matched component systems and recommended application equipment; and

If the marking deteriorates due to natural causes; such as fading, cracking, peeling, lifting or discoloration; 3M's sole responsibility and purchaser's and users exclusive remedy shall be that 3M will provide replacement of the 3M materials per the following table:

Total Warranty <u>Period</u>	Full Sheeting <u>Replacement</u>	Pro-Rata Sheeting <u>Replacement</u>	Monthly Reduction <u>In Allowance</u>
36 months	24 months	25 th – 36 th month	1/12

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

Conditions

Such failure must be solely the result of design or manufacturing defects in the series 957 marking and not of outside causes such as: improper fabrication, handling, maintenance or installation; use of application procedures not recommended by 3M; applied to a surface at greater than $\pm 10^\circ$ from vertical; failure of substrate; exposure to chemicals, abrasion and other mechanical damage; collisions, vandalism or malicious mischief.

3M reserves the right to determine the method of replacement. Replacement sheeting will carry the unexpired warranty of the marking it replaces.

Claims made under this warranty will be honored only if 3M is notified of a failure within a reasonable time, reasonable information requested by 3M is provided and 3M is permitted to verify the cause of the failure.

4 Application

- Check the proper temperature using an Infrared-Thermometer like 3M™ Scotchtrak™ IR-500.
- Do not overlap sheeting
- Application underneath belts or buckles is not recommended.
- Remove premask tape after application using a 180° pull off angle.
- Allow the canvas to remain undisturbed for a minimum of 2 hrs after application
- Contact your 3M representative for detailed processing and application procedures
- Unknown substrates should be tested individually in regard to final adhesion values

5 Maintenance and Cleaning

Hand wash with sponge, cloth, or soft brush using warm water and detergent. The cleaner must be wet, non-abrasive, without strong solvents and have a pH value between 6 and 8 (neither strongly acidic nor strongly alkaline). Rinse thoroughly.

To remove grease, oil or tar, use cloth moistened with heptane, VM&P naphtha or mineral spirits. Wash with detergent and water and rinse thoroughly.

Using the high pressure hot steam cleaning the following conditions should be applied/ set up:

- maximum pressure 80 bar
- maximum temperature 60°C
- minimum of 1 m distance of cleaning jet from sheeting surface
- cleaning wand to be held at no greater angle than 15 degree from perpendicular to the sheeting surface
- wide fan pattern

6 Storage and Shelf Life

- Marking series 957 must be used within 1 year after date of receipt from 3M.
- Partially used rolls should be returned to the shipping carton or suspended horizontally from a rod or pipe through the core.
- Store the sheeting in a clean, dry area and away from direct sunlight.

7 Chemical Resistance

- Resists mild acids, mild alkalis and salts
- Excellent water resistance
- Resists occasional fuel spills

8.1 Disclaimer

THE 3M WARRANTY IS MADE IN LIEU OF ALL OTHER WARRANTIES OR CONDITIONS, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO ANY IMPLIED WARRANTY OR CONDITION OF MERCHANTABILITY, OR FITNESS FOR A PARTICULAR PURPOSE, OR ANY IMPLIED WARRANTY ARISING OUT OF A COURSE OF DEALING OR OF PERFORMANCE, CUSTOM OR USAGE OF TRADE.

8.2 Limitation of Liability

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

9 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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