

## ANSI/ISEA 107-2015 Retroreflective Trim Test Results Summary

Submitted by: 3M

Product #: 6187R

3M™ Scotchlite™ Reflective Material

6187R Fluorescent Lime Yellow High Gloss Trim

Color Lime Yellow

Date Issued: April 1, 2016

Report #: MMM.A011916A

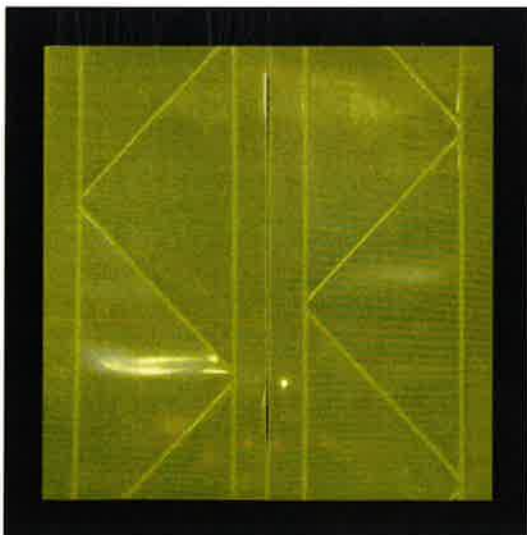
Date Revised: April 7, 2017

The submitted material **MEETS** all photometric combined performance requirements of retroreflective material prior to test exposure per ANSI/ISEA 107-2015 clause 9.1 for minimum coefficient of retroreflection for retroreflective trim.

The submitted material **MEETS** all photometric combined performance requirements of retroreflective material after test exposure per ANSI/ISEA 107-2015 clause 9.2 for minimum coefficient of retroreflection for retroreflective trim after abrasion, flexing, folding at cold temperatures, temperature variation, washing per ISO 6330 6N, F (Tumble Dry Normal) (75 cycles), and rainfall.

### Retroreflective Material

Retroreflective, Performance, Initial .....	Passed
Abrasion.....	Passed
Flexing.....	Passed
Folding at Cold Temperatures .....	Passed
Exposure to Temperature Variation.....	Passed
Washing Per ISO 6330 6N, F (Tumble Dry Normal) (75X) .....	Passed
Retroreflective Performance in Rainfall.....	Passed
Chromaticity, Initial & After Light Exposure .....	Passed



Signed For The Company By

Adam R. Varley  
Technical Director



Testing Cert #2180.01

**Third Party Certification**  
**(ANSI/ISEA 107-2015)**  
**HIGH VISIBILITY COMPLIANCE CERTIFICATE**

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Product #: 6187R  
3M™ Scotchlite™ Reflective Material  
6187R Fluorescent Lime Yellow High Gloss Trim  
Color Lime Yellow

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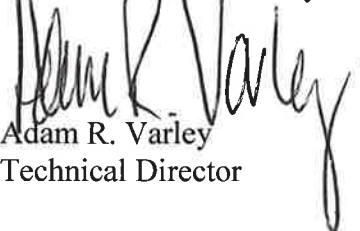
The submitted retroreflective trim **MEETS** all combined performance requirements of retroreflective material **PRIOR** to test exposure per ANSI/ISEA 107-2015.

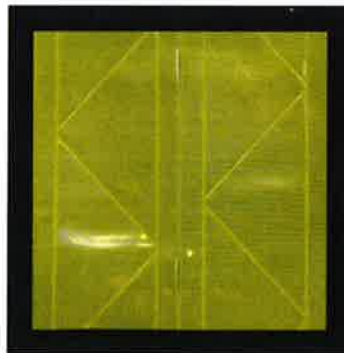
The submitted retroreflective trim **MEETS** all combined performance requirements of retroreflective material **AFTER** test exposure per ANSI/ISEA 107-2015.

All of the above tests and evaluations were performed in accordance with ISO/IEC 17025 Quality Systems.

Certifications of background and other garment material characteristics are not implied by this certificate or by the original report.

Certificate authorized by:

  
Adam R. Varley  
Technical Director



\*This certification applies to the particular sample tested and to the specific tests carried out as dated and detailed in the report referenced above. It does not signify any measure of approval, control, supervision, or surveillance by Vartest Laboratories Inc. to this or any related product.

**ISO/IEC 17025 Certified Third Party Test Report**

**DATE:** April 1, 2016 **FILE:** MMM.A011916A  
**CLIENT:** 3 M Personal Safety Division **ATTN:** Tim Gardner  
3 M Center, Building 25-2E-57 Katie Mahoney  
Saint Paul, MN 55144

**SAMPLE IDENTIFIED BY CLIENT AS:**

Reflective Tape Submitted  
Per ANSI/ISEA 107-2015 Specification  
Product #: 6187R  
3M™ Scotchlite™ Reflective Material - 6187R Fluorescent  
Lime-Yellow High Gloss Trim  
Color Lime Yellow

**TEST PROCEDURE:**

**TEST RESULTS:**

**SPECTROPHOTOMERIC ANALYSIS**

**CHROMATICITY COORDINATES**

**(ASTM E1164, ANSI 107-2015 10.2)**

**Table 3: Color - Fluorescent Background & Combined-Performance Material**

Test	x	y	Y
As Received	0.395	0.575	91.16
After 40 Hours (170 KJ/m2 @ 420nm) Xenon Light Exposure	0.399	0.570	87.45

**FINDINGS:** As Received sample **PASSES** the chromaticity coordinate requirements for ANSI/ISEA 107-2015 for Fluorescent Yellow-Green Color. Combined performance material tested.

After light exposure sample **PASSES** the chromaticity coordinate requirements for ANSI/ISEA 107-2015 for Fluorescent Yellow-Green Color. Combined performance material tested.

Signed For The Company By

Adam R. Varley  
Technical Director

JG/04



Stacy Sadowy  
Quality Assurance Supervisor

