

# CERTIFICATE OF COMPLIANCE

**Certificate Number** 20190322-MH14882  
**Report Reference** MH14882-20171101  
**Issue Date** 2019-March-22

**Issued to:** 3M Company Personal Safety Division  
3M Center, 235-2E-57  
Maplewood, MN 55144-1000 USA

**This is to certify that representative samples of** Garment Visibility Materials - Component  
See following pages for specific model information

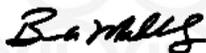
Have been investigated by UL in accordance with the Standard(s) indicated on this Certificate.

**Standard(s) for Safety:** See page 2 for Standards for Safety  
**Additional Information:** See the UL Online Certifications Directory at [www.ul.com/database](http://www.ul.com/database) for additional information

Only those products bearing the UL Certification Mark should be considered as being covered by UL's Certification and Follow-Up Service.

Recognized components are incomplete in certain constructional features or restricted in performance capabilities and are intended for use as components of complete equipment submitted for investigation rather than for direct separate installation in the field. The final acceptance of the component is dependent upon its installation and use in complete equipment submitted to UL LLC.

Look for the UL Certification Mark on the product.



Bruce Mahrenholz, Director North American Certification Program

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This is to certify that representative samples of the product as specified on this certificate were tested according to the current UL requirements.

**Standards for Safety (see standards matrix on page 4 for product specific standards):**

Standard	Title	Edition
NFPA 1971	Standard on Protective Ensembles for Structural Fire Fighting and Proximity Fire Fighting	2018
NFPA 1951	Standard on Protective Ensembles for Technical Rescue Incidents	2013
NFPA 1977	Standard on Protective Clothing and Equipment for Wildland Fire Fighting	2016
NFPA 1975	Standard on Emergency Services Work Clothing Elements	2014
NFPA 2112	Standard on Flame-Resistant Garments for Protection of Industrial Personnel Against Short-Duration Thermal Exposures from Fire	2018
CAN/CGSB 155.22	Standard on Fireline Workwear for Wildland Firefighters	2014
CAN/CGSB 155.20	Standard on Workwear for Protection Against Hydrocarbon Flash Fire and Optionally Steam and Hot Fluids	2017

**Products Covered:**

The following materials may be used for Visibility Markings per NFPA 1971-2018 and Accessory Visibility Markings per the standards matrix on Page 4. Heat Transfer films may be applied to any outer shell material:

3M™ Scotchlite™ Reflective Material	Minimum Width (in.)	Description
5686 Fluorescent Red-orange Fire Coat Comfort Trim – See Note <sup>1</sup>	3	Segmented Fluorescent Red-orange Reflective Silver Center Stripe, Heat Transfer
5687 Fluorescent Lime-yellow Fire Coat Comfort Trim – See Note <sup>1</sup>	3	Segmented Fluorescent Lime-yellow Reflective Silver Center Stripe, Heat Transfer
8986 NFPA Fluorescent Red-orange Flame Resistant Fabric	2	Reflective Fluorescent Lime-yellow
8987 NFPA Fluorescent Lime-yellow Flame Resistant Fabric	2	Reflective Fluorescent Red-orange
9586 Fluorescent Red-orange Fire Coat Trim	3	Fluorescent Red-orange with Reflective Silver Center Stripe
9587 Fluorescent Lime-yellow Fire Coat Trim	3	Fluorescent Lime-yellow with Reflective Silver Center Stripe
9686 Fluorescent Red-orange Fire Coat Trim	3	Fluorescent Red-orange with Reflective Silver Center Stripe
9687 Fluorescent Lime-yellow Fire Coat Trim	3	Fluorescent Lime-yellow with Reflective Silver Center Stripe

<sup>1</sup>5686 and 5687 meet the Transmitted and Stored Thermal Energy (Stored Energy) Test requirements of NFPA 1971-2018 with no additional reinforcement layers required.



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**Products Covered (Cont.):**

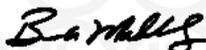
The following materials, as well as the materials from Page 2 provided in any width may be used as Accessory Visibility markings only per the standards matrix on page 4. Heat Transfer films may be applied to any outer shell material:

3M™ Scotchlite™ Reflective Material	Description
5435 Diamond Mesh Flame Resistant Trim	Diamond Mesh Reflective Silver, Heat Transfer
5440 Diamond Mesh Industrial Wash Flame Resistant Trim	Diamond Mesh Reflective Silver, Heat Transfer
5535 Segmented Flame Resistant Transfer Film	Segmented Reflective Silver, Heat Transfer
5540 Segmented Industrial Wash Flame Resistant Trim	Segmented Reflective Silver, Heat Transfer
5616 Fluorescent Red-orange Fire Coat Lettering Transfer Film – See Note <sup>2</sup>	Fluorescent Red-orange with Reflective Silver Center Stripe, Heat Transfer
5617 Fluorescent Lime-yellow Fire Coat Lettering Transfer Film – See Note <sup>2</sup>	Fluorescent Lime-yellow with Reflective Silver Center Stripe, Heat Transfer
5696 Fluorescent Red-orange Fire Coat Comfort Trim	Segmented Fluorescent Red-orange with Reflective Silver Center Stripe, Heat Transfer
5697 Fluorescent Lime-yellow Fire Coat Comfort Trim – See Note <sup>4</sup>	Segmented Fluorescent Lime-yellow with Reflective Silver Center Stripe, Heat Transfer
8735 Silver Flame Resistant Transfer Film	Reflective Silver, Heat Transfer
8932 Silver Flame Resistant Fabric	Reflective Silver
8935 Silver Industrial Wash Flame Resistant Fabric	Reflective Silver
8940 Silver Industrial Wash Flame Resistant Fabric	Reflective Silver
9186 Fluorescent Red-orange Industrial Wash Flame Resistant Trim - See Note <sup>3</sup>	Fluorescent Red-orange with Reflective Silver Center Stripe
9187 Fluorescent Lime-yellow Industrial Wash Flame Resistant Trim - See Note <sup>3</sup>	Fluorescent Lime-yellow with Reflective Silver Center Stripe
9740 Industrial Wash Flame Resistant Transfer Film	Reflective Silver, Heat Transfer
9945 Silver Industrial Wash Flame Resistant Fabric	Reflective Silver

<sup>2</sup>5616 and 5617 may be die cut on customer’s equipment and shall not count towards minimum visibility requirements.

<sup>3</sup>9187 and 9186 have not been evaluated for Retroreflective nor Fluorescence.

<sup>4</sup>5697 in 2” width is not wide enough to meet the requirements of CAN/CGSB 155.22-2014



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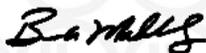
**Products Covered (Cont.):**

The products are Certified to the following Standards:

3M™ Scotchlite™ Reflective Material							
Standard Organization	NFPA					CAN/CSG	
Standard Number	1951	1971	1975	1977	2112	155.20	155.22
Edition	2013	2018	2014	2016	2018	2017	2014
5435	X	X		X	X	X	X
5440	X	X		X	X	X	X
5535	X	X	X	X	X	X	X
5540	X	X		X	X	X	X
5616	X	X		X	X		
5617	X	X		X	X		
5686	X	X		X	X	X	
5687	X	X		X	X	X	
5696						X	
5697						X	X <sup>o</sup>
8735	X	X	X	X	X	X	
8932			X		X		
8935	X	X	X	X	X	X	X
8940	X	X		X	X	X	
8986 NFPA	X	X		X			
8987 NFPA	X	X		X			
9186					X	X	
9187					X	X	
9586	X	X		X	X	X	
9587	X	X		X	X	X	
9686		X					
9687		X					
9740	X	X		X	X	X	X
9945	X	X		X	X	X	X

<sup>o</sup>3" width only

These trim materials have been found to meet the performance requirements for garment and accessory visibility markings in accordance with the standards on page 2, per the matrix above



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