



Certificate of Test

Sample Description: **3M™ Scotchlite™ Reflective Material -9687 Fire Coat Trim, Fluorescent yellow-silver- fluorescent yellow**

Customer: **3M Deutschland GmbH
Carl-Schurz-Str. 1
41453 Neuss, Germany**

Test Specification: EN ISO 20471:2013, High visibility clothing
EN ISO 14116:2008, Protective clothing against heat and flame
EN ISO 11611:2007, Protective clothing for welders clothing
EN ISO 11612:2008, Protective clothing against heat and flame
EN 469:2015, Protective clothing for firefighters

We hereby declare that the item has been tested by FIOH and complies with the requirements of EN ISO 20471:2013 for separate performance material, EN ISO 14116:2008, EN ISO 11611:2007, EN ISO 11612:2008 and EN 469:2015 as follows:

The clause of EN ISO 20471 (separate performance retro reflective material)			Assessment
6.1	New material		Complies
6.2	After test exposure	Test Details	
	Abrasion	7.4.1 ISO 12947-2, inverted mode, 5000 rubs	Complies
	Flexing	7.4.2 ISO 7854, Method A -7500 cycles	Complies
	Folding at cold temperatures	7.4.3 ISO 4675, /-20°C	Complies
	Temperature variation	7.4.4 EN ISO 20471, 12h (50°C)/ 20h (-30°C)	Complies
	Influence of rainfall	7.4.5 EN ISO 20471, Annex C	Complies
	Domestic washing, 50 cycles	7.5.2 EN ISO 6330, 6N/F	Complies
	Dry cleaning, 30 cycles	7.5.2 EN ISO 3175-2	Complies
	Exposure to heat, 180°C and 260°C	EN ISO 17493, 5 min at 180°C or 260°C	Complies
	Exposure to radiant heat	EN ISO 6942, method A, 10 kW/m ²	Complies

The clause of EN ISO 20471 (background material, fluorescent yellow)			Assessment
5.1	New material		Complies
	After test exposure	Test Details	
5.2	Xenon exposure	EN ISO 105-B02, method 3	Complies
7.5	Domestic washing, 50 cycles	7.5.2 EN ISO 6330, 6N/F	Complies
7.5	Dry cleaning, 30 cycles	7.5.2 EN ISO 3175-2	Complies
	Exposure to heat, 180°C	EN ISO 17493, 5 min at 180°C	Complies



<i>Flame spread test</i>			Assessment
<i>-As new</i>			
EN ISO 11611	6.7	EN ISO 15025, method A	Complies
EN ISO 11612	6.3.2	EN ISO 15025, method A	A1
EN ISO 14116	6.1	EN ISO 15025, method A	3/0/0
<i>-After domestic washing, 25 cycles at 60°C</i>			
EN ISO 11611	6.7	EN ISO 15025, method A	Complies
EN ISO 11612	6.3.2	EN ISO 15025, method A	A1
EN ISO 14116	6.1	EN ISO 15025, method A	3/50H/60
<i>-After dry cleaning washing, 30 cycles</i>			
EN ISO 11611	6.7	EN ISO 15025, method A	Complies
EN ISO 11612	6.3.2	EN ISO 15025, method A	A1
EN ISO 14116	6.1	EN ISO 15025, method A	3/30C/P
<i>Resistance to heat</i>			
<i>-As new and after domestic washing, 50 cycles at 60°C</i>			
EN ISO 11612	6.2.1	ISO 17493, at 180°C and at 260 °C for 5 min	Complies
<i>Requirements of EN 469:2015</i>			
<i>- Requirement for visibility</i>			
	6.14.2.2	Relevant clause ISO EN 20471	Complies
	6.14.3.	ISO 17493, at 180°C for 5 min, CIE 54.2	Complies
	6.14.3.	EN ISO 15025, method A (as new and after washings)	Complies

Authorised by:

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Senior Specialist

This assessment is based on test report 300432T01rev1, 2015-10-26.

This assessment is valid only for the tested items and it does not signify any EC type-examination of complete personal protective equipment.