

Test Report

SL52405274838301TX

Date: March 27, 2024 Page 1 of 12

MID OCEAN BRANDS B.V.

7/F, KINGS TOWER, 111 KING LAM STREET, CHEUNG SHA WAN, KOWLOON, HONG KONG

The following sample(s) was/were submitted and identified on behalf of the client as:

Sample Description : (A) Safety vest

Sample Color : (A) Fluorescent Yellow

Composition : (A) 100% polyester

Sample Dimension/Size : S

Fabric Reference Code : 100% polyester

Style No. : MO7602

Proposed Care Instruction :



Test Performed : Selected test(s) as requested by applicant

Sample Receiving Date : Mar 11, 2024

Testing Period : Mar 20, 2024 - Mar 27, 2024

Test Result(s) : Unless otherwise stated the results shown in this test report refer only to the sample(s) tested, for further details, please refer to the following page(s).



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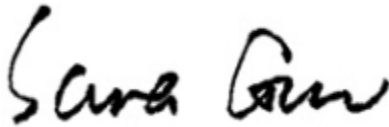
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Protective Clothing – Enhanced Visibility Equipment for Medium Risk Situations - Test Methods and Requirements (EN 17353:2020)

Conclusion	A	Remark
Clause 4 & 5 Minimum Area Requirement and Design	PASS	
Clauses 6.1.1 Colour Performance of New Fluorescent Material and Combined Performance Material	PASS	
Clauses 6.1.1 Colour Performance of Fluorescent Material and Combined Performance Material after Domestic Washing	PASS	
Clauses 6.1.2 Colour Performance of Fluorescent Material and Combined Performance Material after Xenon Test	PASS	
Clause 6.1.3.2 Colour Fastness to Rubbing	PASS	
Clause 6.1.3.3 Colour Fastness to Perspiration	PASS	
Clause 6.1.3.4 Colour Fastness to Laundry	PASS	
Clause 6.2 Dimensional Change after Domestic Washing	PASS	

Remark(s): PASS=Meet General Requirement

Signed for and on behalf of
SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd



Sara Guo (Account Executive)

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Test Result

Protective Clothing – Enhanced Visibility Equipment for Medium Risk Situations - Test Methods and Requirements

EN 17353:2020

Clause 4 & 5 Minimum Area Requirement and Design

(EN 17353:2020; Clause 4.1 & 4.2 & 5)

Sample : A

Claimed Type : AB3

Size : S

Claimed height h of the user : $h \leq 140\text{cm}$

Area of fluorescent material m^2	Area of retroreflective Material m^2	Area of combined performance material m^2	Conclusion
0.22	0.08	/	Pass

Remark:

- 1) Garment or equipment shall comprise the required areas of fluorescent materials and/or retroreflective materials or alternatively shall comprise the required area of combined performance material as given in table 2 or 3. In the latter case the area of fluorescent material can be reduced by the amount of combined performance material used.
- 2) The area of visibility material shown in table 3 cannot be reduced below the minimum requirements by the application of logos, lettering, labels, etc.

Table 2-Minimum required areas of material in m^2 for Type B1 and B2

	B1	B2
Retroreflective material	0.003	0.018

Table 3-Minimum required areas of material in m^2 for Type A, B3 and AB

	A	B3	AB	A	B3	AB
Height h of the user	$h \leq 140\text{cm}$			$h > 140\text{cm}$		
Fluorescent material	0.14	-	0.14	0.24	-	0.24
Retroreflective material	-	0.06	0.06	-	0.08	0.08
Combined performance material	-	-	0.14	-	-	0.24



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Type AB3

Clause	Requirements	Results	Pass/Fail
5.2.2- fluorescent material	The garments shall be made up of fluorescent material on all side to ensure 360 visibility (visibility from all sides).	Yes	Pass
	For upper body garments fluorescent material shall be evenly distributed around the torso and/ or upper arms and/ or limbs, if any.	Yes	Pass
	For lower body garments, fluorescent material shall be evenly distributed around the legs.	N/A	/
	Visibility from all sides shall be reached as follows: - Not less than 40% of the minimum required amount of fluorescent material specified in table 3 is present on both the front and the back when laid flat, and - Not less than 10% of the minimum required amount of fluorescent material specified in table 3 is present on both the right and left sides when laid flat on the back (respectively on the front).	Front: 74 %; Front-left side: 37 %; Front-right side: 37 %; Back: 86 %; Back-left side: 43 %; Back-right side: 43 %;	Pass
5.3.4- retroreflective material	Retroreflective material shall be placed on the torso so as to ensure a minimum width of 20mm encircling the torso. Alternatively, retroreflective materials may be placed to encircle the upper arms.	Width: 50mm;	Pass
	If a B3 garment covers limbs below the elbows or knees, then retroreflective material on the limbs is required. In this case, Requirements (see 5.3.3) for limbs shall be fulfilled whilst the remainder of the material shall be placed on the torso. It is not necessary for a minimum 20mm wide band to be applied on the limbs in this case. Supplement clause 5.3.3 garment requirements: - When retroreflective material is applied to a garment it shall also be positioned to achieve 360° visibility (visibility from all sides).	N/A	/
	- Any gap in the lengthwise continuity of the retroreflective material shall not be greater than 50mm, measured parallel to the direction of the material, and the total of such gaps shall not be greater than 50mm around the limbs. Any offset not greater than the width of the material plus 5mm is allowed.	N/A	/
	Additionally, separate retroreflective elements may form part of an applied design in conjunction with the above. The retroreflective elements shall have a minimum area of 25cm ² each.	N/A	/



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	Visibility from all sides shall be reached as follows: - Not less than 40% of the minimum required amount of retroreflective material specified in table 3 is present on both the front and the back when laid flat, and - Not less than 10% of the minimum required amount of retroreflective material specified in table 3 is present on both the right and left sides when laid flat on the back (respectively on the front).	Front: 65 %; Front-left side: 32 %; Front-right side: 33 %; Back: 66 %; Back-left side: 33 %; Back-right side: 33 %;	Pass
	Any gap in the lengthwise continuity of the retroreflective material shall not be greater than 50mm, measured parallel to the direction of the material, and the total of such gaps shall not be greater than 100mm around the torso. Any offset not greater than the width of the material plus 5mm is allow	Gap: 7mm; Total gap: 7mm; Offset: 0mm	Pass
5.4- Combined performance material	Combined performance material shall be used only in a form that maintains a width of $\geq 20\text{mm}$	N/A	/

Remarks:

- (1) N/A= Not applicable
- (2) The area shall be measured on the smallest garment size available with all fasteners adjusted to the smallest configuration possible.
- (3) Fluorescent material areas covered by any logos, lettering, labels etc., are not counted towards the total area.
- (4) The compliance conclusion and area measurement are valid only when performance of fluorescent material meet requirement as specified in Clause 6.1& 6.2(Fluorescent material). **Client has the responsibility to ensure the fluorescent material shall be tested accordingly and meets the relative requirement.**
- (5) The compliance conclusion and area measurement are valid only when performance of retroreflective material meet requirement as specified in Clause 6.3 (Retroreflective material). **Client has the responsibility to ensure the retroreflective material shall be tested accordingly and meets the relative requirement.**



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Clauses 6.1.1 Colour Performance of New Fluorescent Material and Combined Performance Material

(EN 17353:2020 Clause 7.2)

Sample: A

Chromaticity coordinates, x value: 0.381

Chromaticity coordinates, y value: 0.541

Luminance Factor, β : 0.83

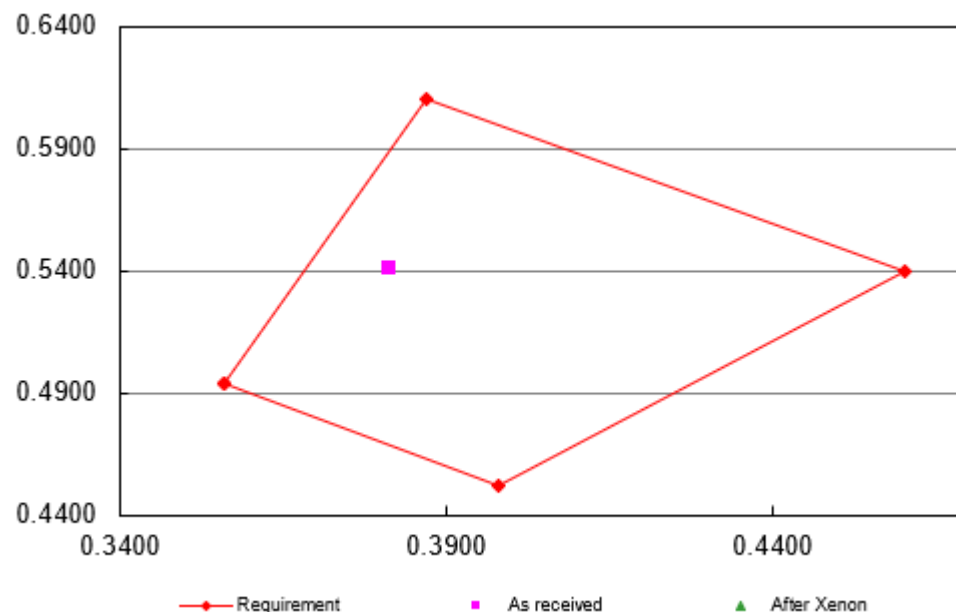
Conclusion: Pass

The colour and the luminance factor of new fluorescent and combined performance material shall be within the regions given in Table 4.

Table 4 Colour coordinates for fluorescent material and combined performance material

Colour	Chromaticity coordinates		Minimum luminance factor β_{min}	
	x	y	Fluorescent material	Combined performance material
Fluorescent yellow	0.356	0.494	0.7	0.7
	0.387	0.610		
	0.460	0.540		
	0.398	0.452		

Graphs:



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Clauses 6.1.1 Colour Performance of Fluorescent Material and Combined Performance Material after Domestic Washing

(EN 17353:2020 Clause 7.2)

Sample: A

After 25 domestic washes

Chromaticity coordinates, x value: 0.380

Chromaticity coordinates, y value: 0.542

Luminance Factor, β : 0.90

Conclusion: Pass

The colour and the luminance factor of fluorescent material and combined performance material shall be within the regions given in Table 4.

Table 4 Colour coordinates for fluorescent material and combined performance material

Colour	Chromaticity coordinates		Minimum luminance factor $\beta_{\min}$	
	x	y	Fluorescent material	Combined performance material
Fluorescent yellow	0.356	0.494	0.7	0.7
	0.387	0.610		
	0.460	0.540		
	0.398	0.452		

Pretreatment (domestic wash): ISO 6330:2021: Using horizontal axis, front-loading type machine; Procedure No.3M, Machine Wash At 30°C; with 2kg total dry mass (Type III (100% Polyester) Ballast+Specimen) and 20±1 g ECE reference detergent 98 without optical brightener, Line Dry



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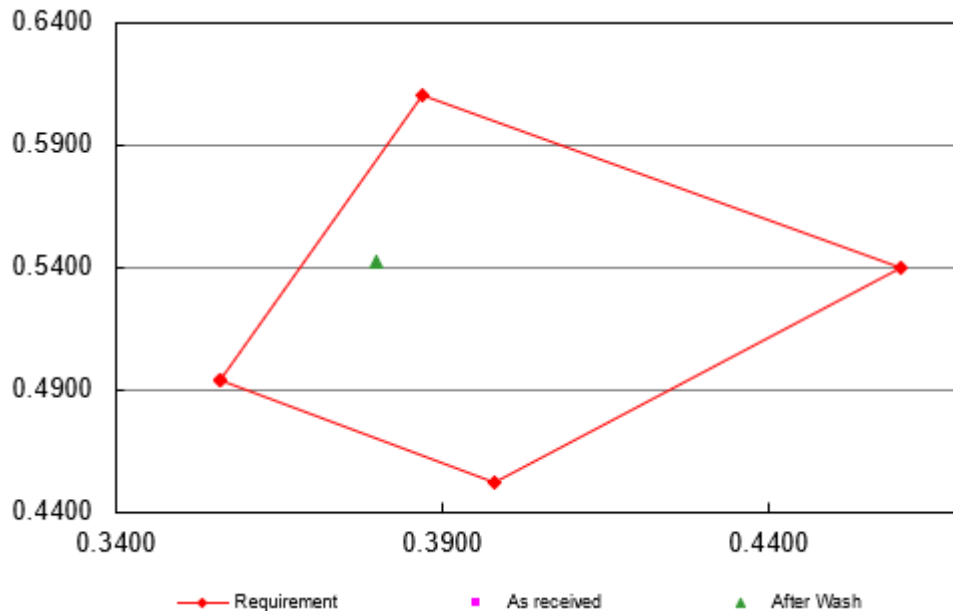
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Graphs:



Clauses 6.1.2 Colour Performance of Fluorescent Material and Combined Performance Material after Xenon Test

(EN 17353:2020 Clause 7.2)

Sample: A

Chromaticity coordinates, x value: 0.381

Chromaticity coordinates, y value: 0.532

Luminance Factor, β : 0.80

Conclusion: Pass

The colour after exposure shall be within the areas defined by the coordinates in Table 4 for fluorescent materials and combined performance materials and its luminance factor shall comply with the minimum value for the luminance factor of the colour that is obtained on exposure to Xenon light.

Table 4 Colour coordinates for fluorescent material and combined performance material

Colour	Chromaticity coordinates		Minimum luminance factor β_{min}	
	x	y	Fluorescent material	Combined performance material
Fluorescent yellow	0.356	0.494	0.7	0.7
	0.387	0.610		
	0.460	0.540		
	0.398	0.452		



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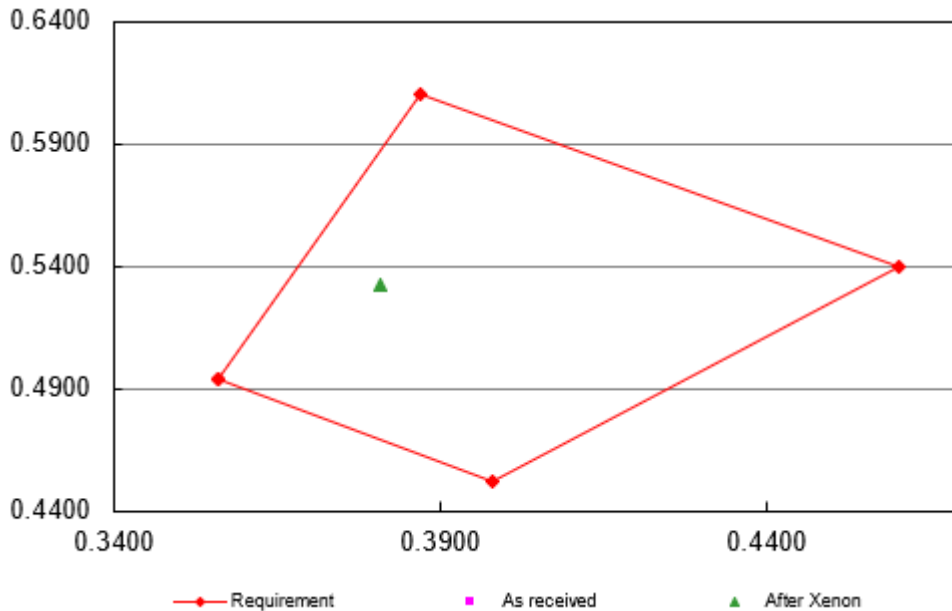
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Graphs:



Clause 6.1.3.2 Colour Fastness to Rubbing

(EN ISO 105-X12:2016; Size of rubbing finger: 16mm dia.)

As Received

-	Unit	A	Requirement
Dry Staining	Grade	4-5	Min. 4

Remark: Grey Scale Rating is based on the 5-step scale of 1 to 5, where 1 is worst and 5 is best.



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Clause 6.1.3.3 Colour Fastness to Perspiration

(EN ISO 105-E04:2013; Test specimen in vertical position)

Acid

-	Unit	A	Requirement
Change in Shade	Grade	4-5	Min. 4
Staining On Multi-fibre Stripe			Min. 4
Acetate	Grade	4-5	
Cotton	Grade	4-5	
Polyamide	Grade	4-5	
Polyester	Grade	4-5*	
Acrylic	Grade	4-5	
Wool	Grade	4-5	

Alkaline

-	Unit	A	Requirement
Change in Shade	Grade	4-5	Min. 4
Staining On Multi-fibre Stripe			Min. 4
Acetate	Grade	4-5	
Cotton	Grade	4-5	
Polyamide	Grade	4-5	
Polyester	Grade	4-5*	
Acrylic	Grade	4-5	
Wool	Grade	4-5	

Grey Scale Rating is based on the 5-step scale of 1 to 5, where 1 is bad and 5 is good.

*Select only the fibre corresponding to the fibres of the background and non-fluorescent material

Clause 6.1.3.4 Colour Fastness to Laundry

(EN ISO 105-C06:2010; Test No.: A2S, Machine wash at 40°C with 4g/L ECE (B) and 1g/L Sodium Perborate with No Steel Balls)

-	Unit	A	Requirement
Change in Shade	Grade	4-5	Min. 4-5

Grey Scale Rating is based on the 5-step scale of 1 to 5, where 1 is bad and 5 is good.



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Clause 6.2 Dimensional Change after Domestic Washing

(EN ISO 3759:2011/EN ISO 5077:2008/EN ISO 6330:2021; Using horizontal axis, front-loading type machine; Procedure No.3M, Machine Wash At 30°C; with 2.0±0.2kg total dry mass (Type III (100% Polyester) Ballast+ Specimen) and 20±1 g ECE reference detergent 98 without optical brightener, Line Dry.)

A	Original (cm)	After 25 Washes (cm)	After 25 Washes Shrinkage (%)	Requirement
Front Length				
From High Point Shoulder	48.1	47.3	-1.7	±5%
Centre Back Length	47.2	46.5	-1.5	±5%
Chest	89.4	87.6	-2.0	±5%
Hem	88.4	86.8	-1.8	±5%
Across Shoulder	29.0	28.3	-2.4	±5%
Armhole	61.4	60.2	-2.0	±5%
Neck Opening/ Neckline/ Collar Length	58.4	57.6	-1.4	±5%

Remark: (+)Means Growth; (-)Means Shrinkage



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Sample Photo



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