

**THIS REPORT IS TO SUPERSEDE TEST REPORT NO.SL52305289556101TX DATE: 2023-05-23  
ISSUED BY SGS (Shanghai), ORIGINAL REPORT WILL BE INVALID FROM TODAY.  
UPDATED SAMPLE INFORMATION.**

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

Sample Description : (A/B)Bonded fabric (POLY STRETCH LAMINATED WITH A KNITTING (STRETCH SOFTSHELL))

Sample Color : (A)hivi yellow;(B)hivi orange

Composition : (A)shell: 100%polyester, inner layer: 100%polyester Weight: 310gsm +-5%;(B)shell: 100%polyester, inner layer: 100%polyester Weight: 310gsm +-5%

Fabric Reference Code : J-HV-P-W757501-1B/2B/3B,  
J-HV-P-T757502-1B/2B/3B,  
J-HV-P-R15015003-1B/2B/3B,  
RB-SS01

Factory : SUZHOU JOY

Country of Origin : China

Country of Destination : Europe

Proposed Care Instruction : 60C 25C\* tumble dry low

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

Sample Receiving Date : May 18, 2023

Testing Period : May 18, 2023 - May 23, 2023

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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**High-visibility clothing - Test methods and requirements (EN ISO 20471:2013+A1:2016)**

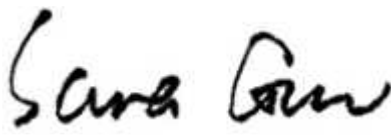
Conclusion	A	B	Remark
Clause 5.1 Colour Performance Requirements of New Material	PASS	PASS	
Clause 5.1 Colour Performance Requirements of Material after Domestic Washing	PASS	PASS	
Clause 5.2 Colour Performance Requirements of Materials after Xenon Test	PASS	PASS	
Clause 5.3.1 Colour Fastness To Rubbing	PASS	PASS	
Clause 5.3.2 Colour Fastness To Perspiration	PASS	PASS	
Clause 5.3.3 Colour Fastness To Washing	PASS	PASS	
Clause 5.3.3 Colour Fastness to Hot Pressing	PASS	PASS	
Clause 5.4 Dimensional Change after Domestic Washing	PASS	PASS	
Clause 5.5.3 Tensile Strength	PASS	PASS	
Clause 5.5.3 Tear Resistance	PASS	PASS	

**Rail Industry Standard for High Visibility Clothing (RIS-3279-TOM:2019)**

Conclusion	B	Remark
Section 2.2.2 Background Material Colour Characteristics	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

**High-visibility clothing - Test methods and requirements**

EN ISO 20471:2013+A1:2016

**Clause 5.1 Colour Performance Requirements of New Material**

(EN ISO 20471:2013+A1:2016, Clause 7.2)

-	Unit	A	B
Chromaticity coordinates, x value	-	0.387	0.598
Chromaticity coordinates, y value	-	0.548	0.365
Luminance Factor, $\beta$	-	1.09	0.53

Sample A

Conclusion: Pass

Remark:

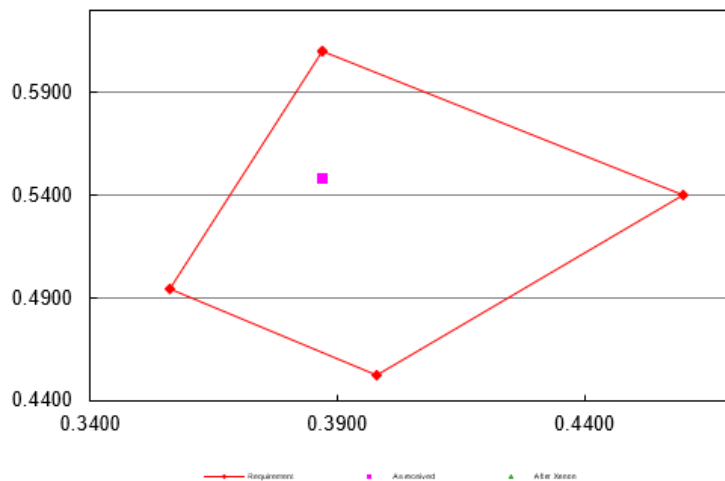
The chromaticity coordinates and the luminance factor shall comply with the requirement as below. The chromaticity shall be within one of the areas and the luminance factor shall comply with the corresponding minimum value.

Fluorescent yellow:

Chromaticity coordinates x/y: 0.387/0.610, 0.356/0.494, 0.398/0.452, 0.460/0.540.

Minimum luminance factor  $\beta_{min}$  : 0.70

Graphs:



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Sample B

Conclusion: Pass

Remark:

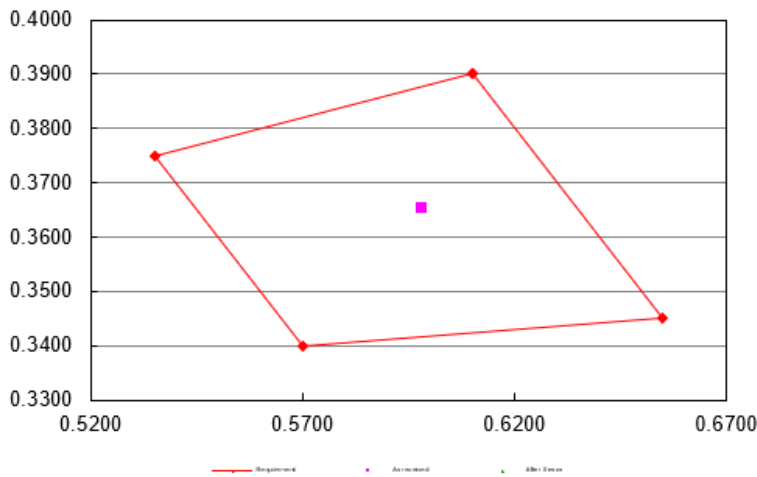
The chromaticity coordinates and the luminance factor shall comply with the requirement as below. The chromaticity shall be within one of the areas and the luminance factor shall comply with the corresponding minimum value.

Fluorescent orange-red:

Chromaticity coordinates x/y: 0.610/0.390, 0.535/0.375, 0.570/0.340, 0.655/0.345.

Minimum luminance factor  $\beta_{min}$  : 0.40

Graphs:



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**Clause 5.1 Colour Performance Requirements of Material after Domestic Washing**

(EN ISO 20471:2013+A1:2016, Clause 7.2)

After 25 Washes

-	Unit	A	B
Chromaticity coordinates, x value	-	0.388	0.600
Chromaticity coordinates, y value	-	0.548	0.364
Luminance Factor, $\beta$	-	1.08	0.52

Sample A

Conclusion: Pass

Remark:

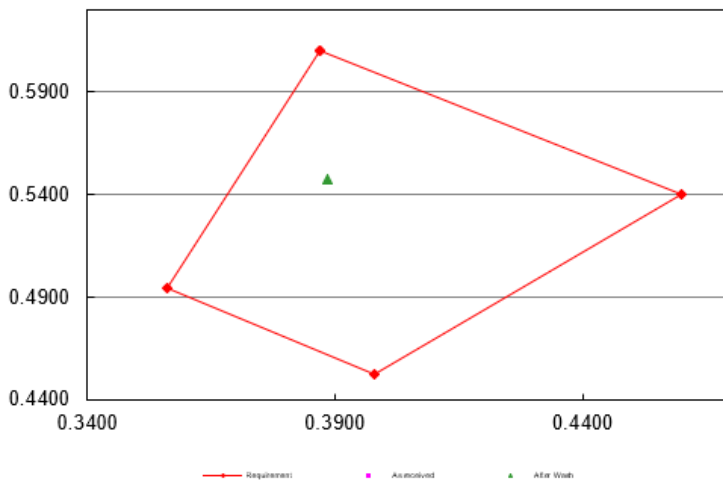
1. Pre-treatment(cleaning procedure): ISO 6330:2012:Using horizontal axis, front-loading type machine; Procedure No.6N, Machine Wash At 60°C; with 2kg total dry mass (Type III (100% Polyester) Ballast+Specimen) and 20±1 g ECE reference detergent 98 without optical brightener, Tumble Dry Low, Not Exceeding 60°C
2. The chromaticity coordinates and the luminance factor shall comply with the requirement as below. The chromaticity shall be within one of the areas and the luminance factor shall comply with the corresponding minimum value.

Fluorescent yellow:

Chromaticity coordinates x/y: 0.387/0.610, 0.356/0.494, 0.398/0.452, 0.460/0.540.

Minimum luminance factor  $\beta_{min}$  : 0.70

Graphs:



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Sample B

Conclusion: Pass

Remark:

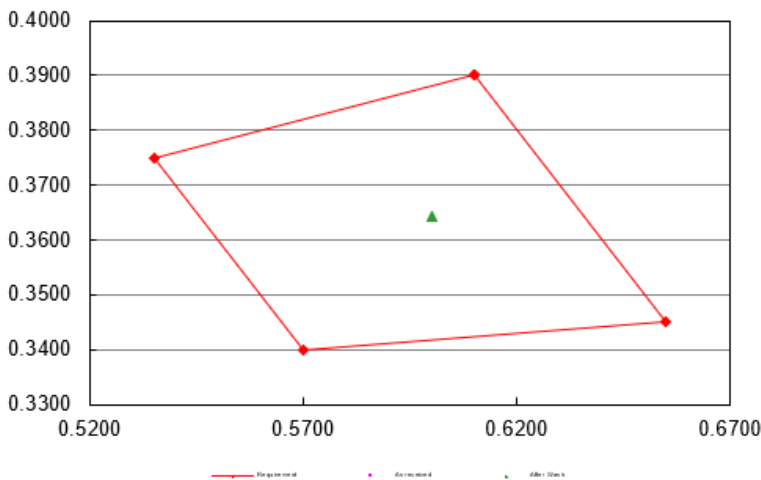
1. Pre-treatment(cleaning procedure): ISO 6330:2012:Using horizontal axis, front-loading type machine; Procedure No.6N, Machine Wash At 60°C; with 2kg total dry mass (Type III (100% Polyester) Ballast+Specimen) and 20±1 g ECE reference detergent 98 without optical brightener, Tumble Dry Low, Not Exceeding 60°C
2. The chromaticity coordinates and the luminance factor shall comply with the requirement as below. The chromaticity shall be within one of the areas and the luminance factor shall comply with the corresponding minimum value.

Fluorescent orange-red:

Chromaticity coordinates x/y: 0.610/0.390, 0.535/0.375, 0.570/0.340, 0.655/0.345.

Minimum luminance factor  $\beta_{min}$  : 0.40

Graphs:



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**Clause 5.2 Colour Performance Requirements of Materials after Xenon Test**

(EN ISO 20471:2013+A1:2016, Clause 7.2)

-	Unit	A	B
Chromaticity coordinates, x value	-	0.384	0.565
Chromaticity coordinates, y value	-	0.544	0.371
Luminance Factor, $\beta$	-	1.06	0.58

Sample A

Conclusion: Pass

Remark:

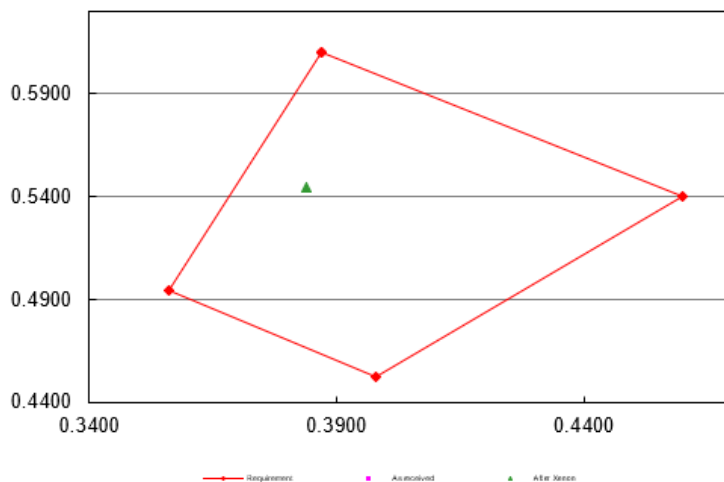
1. The chromaticity coordinates and the luminance factor shall comply with the requirement as below. The chromaticity shall be within one of the areas and the luminance factor shall comply with the corresponding minimum value.

Fluorescent yellow:

Chromaticity coordinates x/y: 0.387/0.610, 0.356/0.494, 0.398/0.452, 0.460/0.540.

Minimum luminance factor  $\beta_{min}$  : 0.70

Graphs:



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Sample B

Conclusion: Pass

Remark:

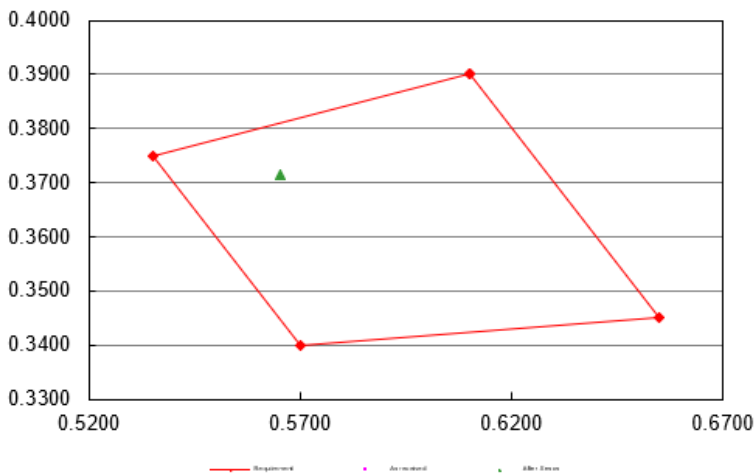
1. The chromaticity coordinates and the luminance factor shall comply with the requirement as below. The chromaticity shall be within one of the areas and the luminance factor shall comply with the corresponding minimum value.

Fluorescent orange-red:

Chromaticity coordinates x/y: 0.610/0.390, 0.535/0.375, 0.570/0.340, 0.655/0.345.

Minimum luminance factor  $\beta_{min}$  : 0.40

Graphs:



### Clause 5.3.1 Colour Fastness To Rubbing

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

#### As Received

	Unit	A	B	Requirement
Dry Staining	Grade	4-5	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 5.3.2 Colour Fastness To Perspiration**

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

Acid

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

Alkaline

-	Unit	A	B	Requirement
Change in Shade	Grade	4-5	4-5	Min.4
Staining On Multi-fibre Stripe				Min.4
Acetate	Grade	4-5	4-5	
Cotton	Grade	4-5	4-5	
Polyamide	Grade	4-5	4-5	
Polyester	Grade	4-5*	4-5*	
Acrylic	Grade	4-5	4-5	
Wool	Grade	4-5	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 5.3.3 Colour Fastness To Washing**

(ISO 105-C06:2010; Test No.: C2S, Machine wash at 60°C with 4g/L ECE (B) and 1g/L Sodium Perborate with 25 Steel Balls)

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



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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 5.3.3 Colour Fastness to Hot Pressing**

(ISO 105-X11:1994; Press with Scorch Tester at 110°C for 15 seconds, single fibre: Polyester.)

A	Unit	Immediately observation	Observation after Conditioning	Requirement
Dry pressing				-
Change in Shade	Grade	4-5	4-5	Min.4-5
Staining on single fibre	Grade	4-5	4-5	Min.4

B	Unit	Immediately observation	Observation after Conditioning	Requirement
Dry pressing				-
Change in Shade	Grade	4-5	4-5	Min.4-5
Staining on single fibre	Grade	4-5	4-5	Min.4

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

**Clause 5.4 Dimensional Change after Domestic Washing**

(ISO 3759:2011/ISO 5077:2007/ISO 6330:2012; Using horizontal axis, front-loading type machine; Procedure No.6N, Machine Wash At 60°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, Tumble Dry Low, Not Exceeding 60°C)

After 5 Washes

	Unit	A	B	Requirement
-				
Lengthwise	%	-1.8	-2.6	+/-3%
Widthwise	%	-0.8	-0.9	+/-3%

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

**Clause 5.5.3 Tensile Strength**

(ISO 1421:2016, Method 1)

	Unit	A	B	Requirement
-				
Warp/Length	N	968	894	Min.100N
Warp Elongation at Break	%	29.9	30.0	-
Weft/Width	N	619	607	Min.100N
Weft Elongation at Break	%	34.2	28.5	-



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**Clause 5.5.3 Tear Resistance**

(ISO 4674-1:2016, Method A)

-	Unit	A	B	Requirement
Warp/Length Yarns Torn	N	100	70	Min.20N
Weft/Width Yarns Torn	N	52	54	Min.20N

**Rail Industry Standard for High Visibility Clothing**

RIS-3279-TOM:2019

**Section 2.2.2 Background Material Colour Characteristics**

(EN ISO 20471:2013+A1:2016, Clause 7.2)

-	Unit	B
Chromaticity coordinates, x value	-	0.598
Chromaticity coordinates, y value	-	0.365
Luminance Factor, $\beta$	-	0.53

Conclusion: Pass

Remark:

1. The chromaticity shall lie within one of the tolerated areas and the luminance factor shall exceed the corresponding minimum.

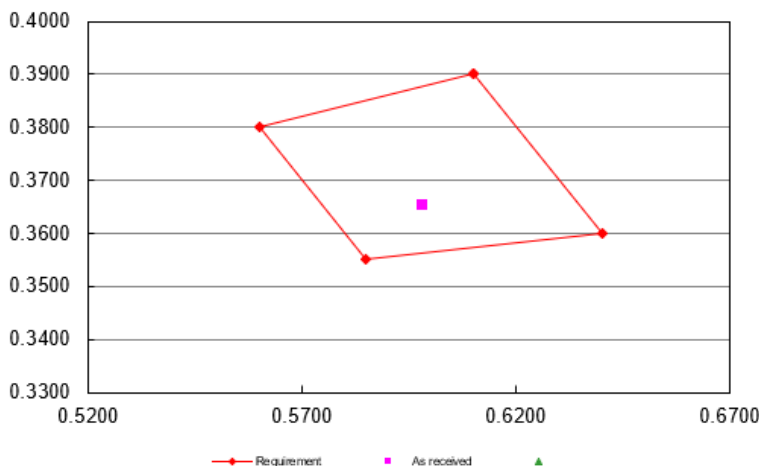
2. Colour requirements for background material

Fluorescent orange:

Chromaticity coordinates x/y: 0.610/0.390, 0.560/0.380, 0.585/0.355, 0.640/0.360.

Minimum luminance factor  $\beta_{min}$  : 0.40

Graphs:



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### Sample Photo



The statement of conformity in this test report is only based on measured values by the laboratory and does not take their uncertainties into consideration.

\*\*\*End of Report\*\*\*



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