

FLAMESAFE WORKWEAR USA LTD
1820 AVE M, SUITE 1086, BROOKLYN, NY, 11230, USA

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

Sample Description : (A)TSHMA HVBK -Shirt (modacrylic cotton 60/40 flame retardant interlock fabric 220gsm)
(B,C)KFMOD003 Knitted fabric (modacrylic cotton 60/40 flame retardant interlock fabric 220gsm)

Sample Color : (A)hi-vis yellow/black;(B)hi-vis yellow;(C)black

Composition : (A)60% modacrylic 40% cotton;(B)60% modacrylic 40% cotton;(C)60% modacrylic 40% cotton

Style No. : TSHMA HVBK

Other Info. : Sample Size: 50*100cm

Proposed Care Instruction : -

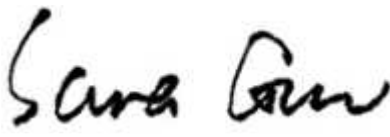
Test Performed : Selected test(s) as requested by applicant

Sample Receiving Date : Jan 05, 2023

Testing Period : Jan 06, 2023 - Jan 13, 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).

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



Sara Guo (Account Executive)

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Test Result

Dimensional Stability To Washing

(ISO 3759:2011/ISO 5077:2007/ISO 6330:2021; Using horizontal axis, front-loading type machine; Procedure No.4N, Machine Wash At 40°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 Normal, Not Exceeding 80°C)

After 3 Washes

| | Unit | B | C |
|------------|------|------|------|
| Lengthwise | % | -2.0 | -2.2 |
| Widthwise | % | -2.4 | -1.5 |

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

Appearance After Washing

(SGS In-House Method; SL-TM-DIM-001; AATCC TM 135-2018t:Option 1, Machine wash at (105±5)°F with 1.8 kg total loading (Type 1 ballast + specimen) and 66±1g of 1993 AATCC Standard Reference Detergent, Permanent Press cycle, Tumble Dry Permanent Press.)

A

After 5 washes

Observation on washed sample

1. Cross staining : Grade 5

General appearance of washed sample is satisfactory.

Remark: only test cross staining

Remarks: 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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Personal Protective Equipment ANSI/ISEA 107 - American National Standard for High-Visibility Safety Apparel and Accessories

ANSI/ISEA 107-2020

Section 8.1.1 Background and Combined-Performance Materials Prior to Exposure Tests

(ANSI/ISEA 107-2020, Section 10.2)

Two layers of the same material

| | Unit | B |
|-----------------------------------|------|--------|
| Chromaticity coordinates, x value | - | 0.386 |
| Chromaticity coordinates, y value | - | 0.533 |
| Minimum total luminance Factor, Y | % | 104.01 |

Conclusion: Pass

Remark:

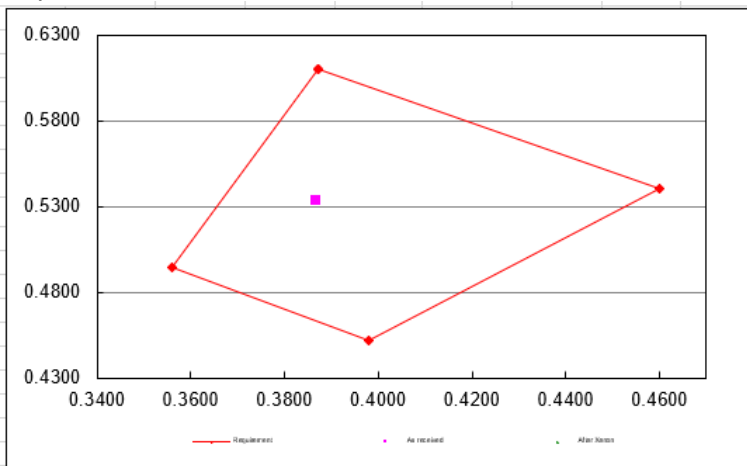
The chromaticity shall lie within one of the areas and the luminance factor shall exceed the corresponding minimum.

Fluorescent yellow-green:

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

Minimum total luminance factor, Y: 70%

Graphs:



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Section 8.1.2 Colorfastness of Combined-Performance Materials after Xenon Test

(ANSI/ISEA 107-2020, Section 10.2)

Two layers of the same material

| | Unit | B |
|-----------------------------------|------|-------|
| Chromaticity coordinates, x value | - | 0.390 |
| Chromaticity coordinates, y value | - | 0.479 |
| Minimum total luminance Factor, Y | % | 80.96 |

Conclusion: Pass

Remark:

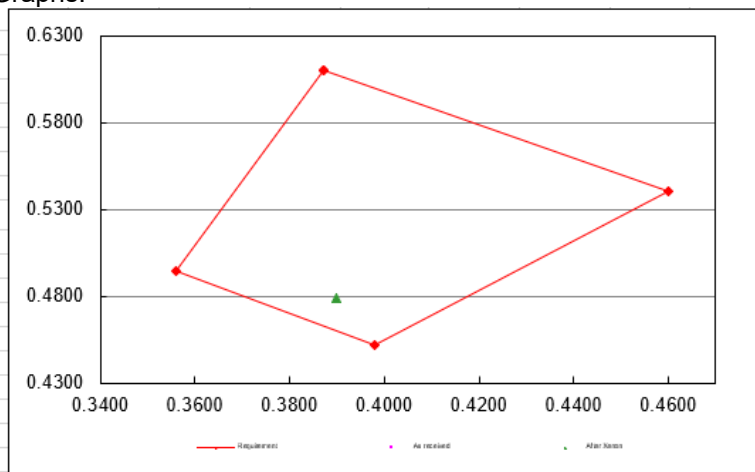
1. Pre-treatment (exposure procedure): AATCC TM16.3-2020, 40 AFU.
2. The chromaticity shall lie within one of the areas and the luminance factor shall exceed the corresponding minimum.

Fluorescent yellow-green:

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

Minimum total luminance factor, Y: 70%

Graphs:



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Section 8.2.3 Colorfastness to Domestic Laundry

(AATCC TM 61-2013e(2020); Test No. 2A modified, 105 degree F)

| | Unit | B | C | Requirement |
|--------------------------------|-------|-----|-----|-------------|
| Change in Shade | Grade | 4.5 | 4.5 | Min. 4.5 |
| Staining On Multi-fibre Stripe | | | | Min. 3.0 |
| Acetate | Grade | 4.5 | 4.5 | |
| Cotton | Grade | 4.5 | 4.5 | |
| Nylon | Grade | 4.5 | 4.5 | |
| Polyester | Grade | 4.5 | 4.5 | |
| Acrylic | Grade | 4.5 | 4.5 | |
| Wool | Grade | 4.5 | 4.5 | |

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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Sample Photo



Product information is provided by applicant without verification or authentication of the brand.

End of Report



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