# Test report

Report No.

## Overall result

PASS with information

Please refer to the following pages for test result summary and notes.

## Client information

Client: -

Address: -




## Sample information

Description: -

Country of origin: -

Country of distribution: -

Materials: 100%cotton

Quantity submitted: -

Labeled age grade: -

Tested age grade: -

Weight: 137gsm

## General information

Sample receipt date: 19-Mar-2024

Testing period: 19-Mar-2024 to 23-Mar-2024

Report date: 23-Mar-2024

QIMA (Hangzhou) Testing Co., Ltd.

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Textile Laboratory Leader

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## Result summary

At the request of the client, the following test were conducted:

| Test(s) conducted | Conclusion |
|---|---|
| Dimensional Stability to Washing | PASS |
| Appearance after Laundering | PASS |
| Color Fastness to Washing | PASS |
| Color Fastness to Crocking | PASS |
| Color Fastness to Light | PASS |
| Color Fastness to Perspiration | PASS |
| Flammability of Textile Products | PASS |
| Fabric Weight Per Unit Area | PASS |
| Threads per Unit Length | Information only |
| Pilling Resistance | PASS |
| Fiber Content | PASS |

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## Detailed results

**Dimensional Stability to Washing**

Test Method: AATCC 150-2018; Test No. (1) IID, Machine wash at 85 degree F with 1.8kg total loading (Type 1 ballast + specimen) and 66±1g of 1993AATCC Standard Reference detergent, normal cycle, wash inside out, flat dry.

| Specimen No. | 1 | | | |
|---|---|---|---|---|
| Items | Result | | | Client's requirement (%) |
| | Original (mm) | After 3 Washes (mm) | After 3 Washes Shrinkage (%) | |
| Front length from High point shoulder | 716 | 695 | -2.9 | ±3 |
| Center back length | 747 | 725 | -2.9 | |
| Sleeve length | 503 | 493 | -2.0 | |
| Chest | 1180 | 1172 | -0.7 | |
| Hem | 1216 | 1196 | -1.6 | |
| Across shoulder | 646 | 628 | -2.8 | |
| Armhole | 424 | 412 | -2.8 | |
| Collar | 442 | 432 | -2.3 | |
| Sleeve opening | 222 | 222 | Nil | |
| Conclusion | PASS | | | |

Remarks: (+) Means Extension (-) Means Shrinkage

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## Detailed results

**Appearance after Laundering**

Test Method: TX-HZ-SP202, observations on 3 cycles washed sample.

| Specimen No. | 1 | | |
|---|---|---|---|
| Assessing Items | Observation | Requirement | Result |
| Color Change | Negligible Change (Grade 4.5) | Min.4.0 | PASS |
| Cross Staining | Negligible Change (Grade 4.5) | Min.4.5 | PASS |
| Pilling/fuzzing | Slightly Changed (Grade 4.0) | Min.3.5 | PASS |
| Fabric Appearance | Negligible Change | No break, no noticeable crease / Snagging | PASS |
| Durability of Print | Negligible Change | Durable;<br>Color Change Min.4<br>Self-staining Min. 4-5. | PASS |
| Seam Appearance | Negligible Change | No grinning/ unraveled seam / breaking and no noticeable twist or other changes that affect the appearance.<br>Side seam twist:<br>Top: 5%.<br>Bottom: 4%. | PASS |
| Shape | Negligible Change | No Noticeable distortion | PASS |
| Conclusion | PASS | | |

Remark:
(1) Grey scale rating is based on the 5-step of 1 to 5, where 1 is bad and 5 is good.
(2) Washing procedure same as Dimensional Stability Test.

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## Detailed results

**Color Fastness to Washing**

Test Method: AATCC 61-2013e(2020); Test No. 2A modified, Machine wash at 105 degree F with 0.15 % '1993 AATCC standard reference detergent WOB' detergent, with 50 steel balls.

| Specimen No. | 1 | | --- | --- | --- | Client's requirement |
|---|---|---|---|---|---|---|
| Items | Result (Grade) | Result (Grade) | Result (Grade) | Result (Grade) | Result (Grade) | |
| Change in shade | 4.5 | --- | --- | --- | --- | Min. 4.0 |
| Staining on multi-fiber stripe | | | | | | |
| -Acetate | 4.5 | --- | --- | --- | --- | Min. 4.0 |
| -Cotton | 4.5 | --- | --- | --- | --- | Min. 4.0 |
| -Nylon | 4.5 | --- | --- | --- | --- | Min. 4.0 |
| -Polyester | 4.5 | --- | --- | --- | --- | Min. 4.0 |
| -Acrylic | 4.5 | --- | --- | --- | --- | Min. 4.0 |
| -Wool | 4.5 | --- | --- | --- | --- | Min. 4.0 |
| Self staining | 4.5 | --- | --- | --- | --- | Min. 4.0 |
| Conclusion | PASS | --- | --- | --- | --- | - |

Remark: Grey scale rating is based on the 5-step of 1 to 5, where 1 is bad and 5 is good.

**Color Fastness to Crocking**

Test Method: AATCC 8-2016e(2022)e

| Specimen No. | 1 | | --- | --- | --- | Client's requirement |
|---|---|---|---|---|---|---|
| Items | Result (Grade) | Result (Grade) | Result (Grade) | Result (Grade) | Result (Grade) | |
| Dry staining | 4.5 | --- | --- | --- | --- | Min. 4.0 |
| Wet staining | 4.0 | --- | --- | --- | --- | Min. 3.0 |
| Conclusion | PASS | --- | --- | --- | --- | - |

Remark: 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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## Detailed results

**Color Fastness to Light**

Test Method: AATCC 16.3-2020; Option 3; Xenon Arc Lamp.

| Specimen No. | 1 | --- | --- | --- | --- | Client's requirement |
|---|---|---|---|---|---|---|
| Items | Result (Grade) | Result (Grade) | Result (Grade) | Result (Grade) | Result (Grade) | |
| After 20 AFU Change in shade | 4.5 | --- | --- | --- | --- | Min. 4.0 |
| Conclusion | PASS | --- | --- | --- | --- | - |

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

**Color Fastness to Perspiration**

Test Method: AATCC 15-2021e.

| Specimen No. | 1 | --- | --- | --- | --- | Client's requirement |
|---|---|---|---|---|---|---|
| Items | Acidic Result (Grade) | Acidic Result (Grade) | Acidic Result (Grade) | Acidic Result (Grade) | Acidic Result (Grade) | |
| Change in shade | 4.5 | --- | --- | --- | --- | Min. 4.0 |
| Staining on multi-fiber stripe | | | | | | |
| -Acetate | 4.5 | --- | --- | --- | --- | Min. 4.0 |
| -Cotton | 4.5 | --- | --- | --- | --- | Min. 4.0 |
| -Nylon | 4.5 | --- | --- | --- | --- | Min. 4.0 |
| -Polyester | 4.5 | --- | --- | --- | --- | Min. 4.0 |
| -Acrylic | 4.5 | --- | --- | --- | --- | Min. 4.0 |
| -Wool | 4.5 | --- | --- | --- | --- | Min. 4.0 |
| Self staining | 4.5 | --- | --- | --- | --- | Min. 4.0 |
| Conclusion | PASS | --- | --- | --- | --- | - |

Remark: Grey scale rating is based on the 5-step of 1 to 5, where 1 is bad and 5 is good.

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## Detailed results

**Flammability of Textile Products**

Test Method: CAN/CGSB-4.2 No.27.5-2023

| Specimen No. | 1-Main Body | | | | |
|---|---|---|---|---|---|
| Preliminary Tests | Fabric Surface | Smooth | Test Specimen Direction | | Face Length |
| Items | Result | | | | Client's requirement |
| | **As Received** | | **After Dry-cleaning and Laundering*** | | |
| | Flame Spread (sec.) | Burn Code | Flame Spread (sec.) | Burn Code | |
| (1) | 8.1 | - | 8.2 | - | >3.5s |
| (2) | 8.2 | - | 8.1 | - | |
| (3) | 8.1 | - | 8.1 | - | |
| (4) | 8.1 | - | 8.2 | - | |
| (5) | 8.1 | - | 8.1 | - | |
| (Avg.) | 8.1 | - | 8.1 | - | |
| Conclusion | PASS | | | | |

* Dry-cleaning / Laundering procedure is according to Commercial Dry Cleaning /CAN/CGSB-4.2 No.58-2019, Procedure 5, Dry Procedure D1; Moderate mechanical action at 50℃, Synthetic detergent, Tumble dry normal.

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## Detailed results

**Fabric Weight Per Unit Area**

Test Method: ASTM D3776/D3776M-20, Option C

| Specimen No. | 1 | --- | --- | --- | --- | Client's requirement |
|---|---|---|---|---|---|---|
| Items | Result | Result | Result | Result | Result | |
| ($g/m^2$) | 142 | --- | --- | --- | --- | 137±5% |
| ($oz/yd^2$) | 4.19 | --- | --- | --- | --- | - |
| Conclusion | PASS | --- | --- | --- | --- | - |

**Threads per Unit Length**

Test Method: ASTM D3775-17$^{e1}$

| Specimen No. | 1 | | |
|---|---|---|---|
| Items | Client's requirement | Result | Conclusion |
| Warp (Ends per Inch) | N/A | 58.4 | Information only |
| Weft (Picks per Inch) | N/A | 53.1 | |

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## Detailed results

**Pilling Resistance**

Test Method: ASTM D3512/D3512M-22; After 30 min. tumbling in Random tumble Pilling Tester

| Specimen No. | 1 | --- | --- | --- | --- | Client's requirement |
|---|---|---|---|---|---|---|
| Items | Result | Result | Result | Result | Result | |
| As received Rating | 4.0 | --- | --- | --- | --- | Min.4.0 |
| Conclusion | PASS | --- | --- | --- | --- | - |

Remarks: Pilling Rating

5 No pilling/ No fuzzing
4 Slight pilling/ Slight fuzzing
3 Moderate pilling/ Moderate fuzzing
2 Severe pilling/ Severe fuzzing
1 Very severe pilling/ Very severe fuzzing

**Fiber Content**

Test Method: AATCC TM20-2021.

| Specimen No. | 1 | | |
|---|---|---|---|
| Items | Client's requirement | Result | Conclusion |
| Cotton (%) | 100 | 100 | PASS |

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## Specimen description

| Specimen # | Specimen description | Location |
|---|---|---|
| 1 | Brown with white / black printed top | Finished product |

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## Pictures

### Sample photo:




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End of the report

The test result(s) and conclusion(s) in this report relate only to the sample(s) as received and the method /regulation section(s) tested as described herein. If it is not further specified in the report, the decision rule for stating conformity is based on the QIMA decision rule. (https://www.qima.com/conditions-of-service#decisionRule ). This test report may not be reproduced in whole or in part, without the written approval of QIMA (Hangzhou) Testing Co., Ltd.