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Your notice of
19-04-2018

Your reference

Date
08-05-2018

Analysis Report 18.02345.01

Required tests :

ISO 105-E16 (2006)
ISO 105-E04 (2013)
ISO 105-D01 (2010)
ISO 105-C06 (2010)

Determination of the colour fastness to spotting: water
Determination of the colour fastness to perspiration
Determination of the colour fastness to dry cleaning
Determination of the colour fastness to domestic and commercial laundering

| Identification number | Information given by the client | Date of receipt |
|-----------------------|---------------------------------|-----------------|
| T1809532 | Zanzibar 7008 | 19-04-2018 |
| T1809533 | Togo 7031 | 19-04-2018 |
| T1809534 | Ariana 7029 | 19-04-2018 |
| T1809535 | Ponza 7027 | 19-04-2018 |

Eddy Albrecht

Order responsible

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In assessing compliance with the specifications, we did not take into account the uncertainty on the test results.

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Reference: T1809532 - Zanzibar 7008

Determination of the colour fastness to spotting: water

Date of ending the test 07-05-2018
Standard used ISO 105-E16 (2006)

Deviation from the standard -

Results
Evaluation using grey scales

| | Numerical rating |
|---|------------------|
| Change in colour of the specimen, inside the spot | 5 |
| Change in colour of the specimen, at the edge of the spot | 5 |

Grading against grey scale for change in colour and/or staining:

Use of a 9 point scale from 5 to 1; where 5 is excellent and 1 is poor. Intermediate values like 2-3 are possible.

Reference: T1809532 - Zanzibar 7008

Determination of the colour fastness to perspiration

Date of ending the test 07-05-2018
Standard used ISO 105-E04 (2013)

Deviation from the standard
Apparatus Perspirometer

Results

Alkaline solution

| Numerical rating | |
|--------------------|-----|
| Change in colour | 4-5 |
| Staining on cotton | 4 |
| Staining on wool | 4 |

Acid solution

| Numerical rating | |
|--------------------|-----|
| Change in colour | 4-5 |
| Staining on cotton | 4 |
| Staining on wool | 4-5 |

Grading against grey scale for change in colour and/or staining:

Use of a 9 point scale from 5 to 1; where 5 is excellent and 1 is poor. Intermediate values like 2-3 are possible.

Reference: T1809532 - Zanzibar 7008

Determination of the colour fastness to dry cleaning

Date of ending the test 07-05-2018
Standard used ISO 105-D01 (2010)

Apparatus Gyrowash
Solvent Tetrachloroethylene

Results

Monofibre

| Numerical rating | |
|--------------------|---|
| Change in colour | 5 |
| Staining on cotton | 5 |
| Staining on wool | 5 |

Grading against grey scale for change in colour and/or staining:

Use of a 9 point scale from 5 to 1; where 5 is excellent and 1 is poor. Intermediate values like 2-3 are possible.

Reference: T1809532 - Zanzibar 7008

Determination of the colour fastness to domestic and commercial laundering

Date of ending the test 07-05-2018
Standard used ISO 105-C06 (2010)

Deviation from the standard 30°C instead of 40°C
Apparatus Gyrowash
Detergent ECE reference detergent
Wash procedure Method A2S
Temperature 30°C
Use of steel balls Yes, number :10
Treatment in acetic acid reagent No

Results

Monofibre

| Numerical rating | |
|--------------------|-----|
| Change in colour | 4-5 |
| Staining on cotton | 4 |
| Staining on wool | 3-4 |

Grading against grey scale for change in colour and/or staining:

Use of a 9 point scale from 5 to 1; where 5 is excellent and 1 is poor. Intermediate values like 2-3 are possible.

Reference: T1809532 - Zanzibar 7008

Determination of the colour fastness to domestic and commercial laundering

Date of ending the test 07-05-2018
Standard used ISO 105-C06 (2010)

Apparatus Gyrowash
Detergent ECE reference detergent
Wash procedure Method C2S
Temperature 60°C
Use of steel balls Yes, number :10
Treatment in acetic acid reagent No

Results

Monofibre

| Numerical rating | |
|---------------------|---|
| Change in colour | 4 |
| Staining on cotton | 3 |
| Staining on viscose | 3 |

Grading against grey scale for change in colour and/or staining:

Use of a 9 point scale from 5 to 1; where 5 is excellent and 1 is poor. Intermediate values like 2-3 are possible.

Reference: T1809532 - Zanzibar 7008

Determination of the colour fastness to domestic and commercial laundering

Date of ending the test 07-05-2018
Standard used ISO 105-C06 (2010)

Apparatus Gyrowash
Detergent ECE reference detergent
Wash procedure Method B2S
Temperature 50°C
Use of steel balls Yes, number :10
Treatment in acetic acid reagent No

Results

Monofibre

| Numerical rating | |
|---------------------|-----|
| Change in colour | 4 |
| Staining on cotton | 3-4 |
| Staining on viscose | 3-4 |

Grading against grey scale for change in colour and/or staining:

Use of a 9 point scale from 5 to 1; where 5 is excellent and 1 is poor. Intermediate values like 2-3 are possible.

Reference: T1809532 - Zanzibar 7008

Determination of the colour fastness to domestic and commercial laundering

Date of ending the test 07-05-2018
Standard used ISO 105-C06 (2010)

Apparatus Gyrowash
Detergent ECE reference detergent
Wash procedure Method D2S
Temperature 70°C
Use of steel balls Yes, number :10
Treatment in acetic acid reagent No

Results

Monofibre

| Numerical rating | |
|---------------------|-----|
| Change in colour | 3-4 |
| Staining on cotton | 2-3 |
| Staining on viscose | 3 |

Grading against grey scale for change in colour and/or staining:

Use of a 9 point scale from 5 to 1; where 5 is excellent and 1 is poor. Intermediate values like 2-3 are possible.

Reference: T1809533 - Togo 7031

Determination of the colour fastness to spotting: water

Date of ending the test 07-05-2018
Standard used ISO 105-E16 (2006)

Deviation from the standard -

Results
Evaluation using grey scales

| | Numerical rating |
|---|------------------|
| Change in colour of the specimen, inside the spot | 4-5 |
| Change in colour of the specimen, at the edge of the spot | 4-5 |

Grading against grey scale for change in colour and/or staining:

Use of a 9 point scale from 5 to 1; where 5 is excellent and 1 is poor. Intermediate values like 2-3 are possible.

Reference: T1809533 - Togo 7031

Determination of the colour fastness to perspiration

Date of ending the test 07-05-2018
Standard used ISO 105-E04 (2013)

Deviation from the standard
Apparatus Perspirometer

Results

Alkaline solution

| Numerical rating | |
|--------------------|-----|
| Change in colour | 4-5 |
| Staining on cotton | 2-3 |
| Staining on wool | 3 |

Acid solution

| Numerical rating | |
|--------------------|-----|
| Change in colour | 4-5 |
| Staining on cotton | 3 |
| Staining on wool | 3-4 |

Grading against grey scale for change in colour and/or staining:

Use of a 9 point scale from 5 to 1; where 5 is excellent and 1 is poor. Intermediate values like 2-3 are possible.

Reference: T1809533 - Togo 7031

Determination of the colour fastness to dry cleaning

Date of ending the test 07-05-2018
Standard used ISO 105-D01 (2010)

Apparatus Gyrowash
Solvent Tetrachloroethylene

Results

Monofibre

| Numerical rating | |
|--------------------|-----|
| Change in colour | 4-5 |
| Staining on cotton | 4-5 |
| Staining on wool | 4-5 |

Grading against grey scale for change in colour and/or staining:

Use of a 9 point scale from 5 to 1; where 5 is excellent and 1 is poor. Intermediate values like 2-3 are possible.

Reference: T1809533 - Togo 7031

Determination of the colour fastness to domestic and commercial laundering

Date of ending the test 08-05-2018
Standard used ISO 105-C06 (2010)

Deviation from the standard 30°C instead of 40°C
Apparatus Gyrowash
Detergent ECE reference detergent
Wash procedure Method A2S
Temperature 30°C
Use of steel balls Yes, number :10
Treatment in acetic acid reagent No

Results

Monofibre

| Numerical rating | |
|--------------------|-----|
| Change in colour | 4-5 |
| Staining on cotton | 3 |
| Staining on wool | 3 |

Grading against grey scale for change in colour and/or staining:

Use of a 9 point scale from 5 to 1; where 5 is excellent and 1 is poor. Intermediate values like 2-3 are possible.

Reference: T1809533 - Togo 7031

Determination of the colour fastness to domestic and commercial laundering

Date of ending the test 08-05-2018
Standard used ISO 105-C06 (2010)

Apparatus Gyrowash
Detergent ECE reference detergent
Wash procedure Method B2S
Temperature 50°C
Use of steel balls Yes, number :10
Treatment in acetic acid reagent No

Results

Monofibre

| Numerical rating | |
|---------------------|-----|
| Change in colour | 4 |
| Staining on cotton | 2-3 |
| Staining on viscose | 2-3 |

Grading against grey scale for change in colour and/or staining:

Use of a 9 point scale from 5 to 1; where 5 is excellent and 1 is poor. Intermediate values like 2-3 are possible.

Reference: T1809533 - Togo 7031

Determination of the colour fastness to domestic and commercial laundering

Date of ending the test 08-05-2018
Standard used ISO 105-C06 (2010)

Apparatus Gyrowash
Detergent ECE reference detergent
Wash procedure Method C2S
Temperature 60°C
Use of steel balls Yes, number :10
Treatment in acetic acid reagent No

Results

Monofibre

| Numerical rating | |
|---------------------|-----|
| Change in colour | 3-4 |
| Staining on cotton | 2 |
| Staining on viscose | 2 |

Grading against grey scale for change in colour and/or staining:

Use of a 9 point scale from 5 to 1; where 5 is excellent and 1 is poor. Intermediate values like 2-3 are possible.

Reference: T1809533 - Togo 7031

Determination of the colour fastness to domestic and commercial laundering

Date of ending the test 08-05-2018
Standard used ISO 105-C06 (2010)

Apparatus Gyrowash
Detergent ECE reference detergent
Wash procedure Method D2S
Temperature 70°C
Use of steel balls Yes, number :10
Treatment in acetic acid reagent No

Results

Monofibre

| Numerical rating | |
|---------------------|-----|
| Change in colour | 3 |
| Staining on cotton | 1-2 |
| Staining on viscose | 1-2 |

Grading against grey scale for change in colour and/or staining:

Use of a 9 point scale from 5 to 1; where 5 is excellent and 1 is poor. Intermediate values like 2-3 are possible.

Reference: T1809534 - Ariana 7029

Determination of the colour fastness to spotting: water

Date of ending the test 07-05-2018
Standard used ISO 105-E16 (2006)

Deviation from the standard -

Results
Evaluation using grey scales

| | Numerical rating |
|---|------------------|
| Change in colour of the specimen, inside the spot | 3-4 |
| Change in colour of the specimen, at the edge of the spot | 3-4 |

Grading against grey scale for change in colour and/or staining:

Use of a 9 point scale from 5 to 1; where 5 is excellent and 1 is poor. Intermediate values like 2-3 are possible.

Reference: T1809534 - Ariana 7029

Determination of the colour fastness to perspiration

Date of ending the test 08-05-2018
Standard used ISO 105-E04 (2013)

Deviation from the standard
Apparatus Perspirometer

Results

Alkaline solution

| Numerical rating | |
|--------------------|-----|
| Change in colour | 4-5 |
| Staining on cotton | 4-5 |
| Staining on wool | 4-5 |

Acid solution

| Numerical rating | |
|--------------------|-----|
| Change in colour | 4-5 |
| Staining on cotton | 4-5 |
| Staining on wool | 4-5 |

Grading against grey scale for change in colour and/or staining:

Use of a 9 point scale from 5 to 1; where 5 is excellent and 1 is poor. Intermediate values like 2-3 are possible.

Reference: T1809534 - Ariana 7029

Determination of the colour fastness to dry cleaning

Date of ending the test 07-05-2018
Standard used ISO 105-D01 (2010)

Apparatus Gyrowash
Solvent Tetrachloroethylene

Results

Monofibre

| Numerical rating | |
|--------------------|-----|
| Change in colour | 5 |
| Staining on cotton | 4-5 |
| Staining on wool | 5 |

Grading against grey scale for change in colour and/or staining:

Use of a 9 point scale from 5 to 1; where 5 is excellent and 1 is poor. Intermediate values like 2-3 are possible.

Reference: T1809534 - Ariana 7029

Determination of the colour fastness to domestic and commercial laundering

Date of ending the test 08-05-2018
Standard used ISO 105-C06 (2010)

Deviation from the standard 30°C instead of 40°C
Apparatus Gyrowash
Detergent ECE reference detergent
Wash procedure Method A2S
Temperature 30°C
Use of steel balls Yes, number :10
Treatment in acetic acid reagent No

Results

Monofibre

| Numerical rating | |
|--------------------|-----|
| Change in colour | 4-5 |
| Staining on cotton | 3-4 |
| Staining on wool | 4 |

Grading against grey scale for change in colour and/or staining:

Use of a 9 point scale from 5 to 1; where 5 is excellent and 1 is poor. Intermediate values like 2-3 are possible.

Reference: T1809534 - Ariana 7029

Determination of the colour fastness to domestic and commercial laundering

Date of ending the test 08-05-2018
Standard used ISO 105-C06 (2010)

Apparatus Gyrowash
Detergent ECE reference detergent
Wash procedure Method B2S
Temperature 50°C
Use of steel balls Yes, number :10
Treatment in acetic acid reagent No

Results

Monofibre

| Numerical rating | |
|---------------------|-----|
| Change in colour | 4-5 |
| Staining on cotton | 3-4 |
| Staining on viscose | 3-4 |

Grading against grey scale for change in colour and/or staining:

Use of a 9 point scale from 5 to 1; where 5 is excellent and 1 is poor. Intermediate values like 2-3 are possible.

Reference: T1809534 - Ariana 7029

Determination of the colour fastness to domestic and commercial laundering

Date of ending the test 08-05-2018
Standard used ISO 105-C06 (2010)

Apparatus Gyrowash
Detergent ECE reference detergent
Wash procedure Method C2S
Temperature 60°C
Use of steel balls Yes, number :10
Treatment in acetic acid reagent No

Results

Monofibre

| Numerical rating | |
|---------------------|-----|
| Change in colour | 4-5 |
| Staining on cotton | 3 |
| Staining on viscose | 3 |

Grading against grey scale for change in colour and/or staining:

Use of a 9 point scale from 5 to 1; where 5 is excellent and 1 is poor. Intermediate values like 2-3 are possible.

Reference: T1809534 - Ariana 7029

Determination of the colour fastness to domestic and commercial laundering

Date of ending the test 08-05-2018
Standard used ISO 105-C06 (2010)

Apparatus Gyrowash
Detergent ECE reference detergent
Wash procedure Method D2S
Temperature 70°C
Use of steel balls Yes, number :10
Treatment in acetic acid reagent No

Results

Monofibre

| Numerical rating | |
|---------------------|-----|
| Change in colour | 4-5 |
| Staining on cotton | 2-3 |
| Staining on viscose | 2-3 |

Grading against grey scale for change in colour and/or staining:

Use of a 9 point scale from 5 to 1; where 5 is excellent and 1 is poor. Intermediate values like 2-3 are possible.

Reference: T1809535 - Ponza 7027

Determination of the colour fastness to spotting: water

Date of ending the test 07-05-2018
Standard used ISO 105-E16 (2006)

Deviation from the standard -

Results
Evaluation using grey scales

| | Numerical rating |
|---|------------------|
| Change in colour of the specimen, inside the spot | 5 |
| Change in colour of the specimen, at the edge of the spot | 5 |

Grading against grey scale for change in colour and/or staining:

Use of a 9 point scale from 5 to 1; where 5 is excellent and 1 is poor. Intermediate values like 2-3 are possible.

Reference: T1809535 - Ponza 7027

Determination of the colour fastness to perspiration

Date of ending the test 08-05-2018
Standard used ISO 105-E04 (2013)

Deviation from the standard
Apparatus Perspirometer

Results

Alkaline solution

| Numerical rating | |
|-----------------------|-----|
| Change in colour | 4-5 |
| Staining on polyester | 5 |
| Staining on cotton | 5 |

Acid solution

| Numerical rating | |
|-----------------------|-----|
| Change in colour | 4-5 |
| Staining on polyester | 5 |
| Staining on cotton | 5 |

Grading against grey scale for change in colour and/or staining:

Use of a 9 point scale from 5 to 1; where 5 is excellent and 1 is poor. Intermediate values like 2-3 are possible.

Reference: T1809535 - Ponza 7027

Determination of the colour fastness to dry cleaning

Date of ending the test 07-05-2018
Standard used ISO 105-D01 (2010)

Apparatus Gyrowash
Solvent Tetrachloroethylene

Results

Monofibre

| Numerical rating | |
|-----------------------|-----|
| Change in colour | 4-5 |
| Staining on polyester | 4-5 |
| Staining on cotton | 5 |

Grading against grey scale for change in colour and/or staining:

Use of a 9 point scale from 5 to 1; where 5 is excellent and 1 is poor. Intermediate values like 2-3 are possible.

Reference: T1809535 - Ponza 7027

Determination of the colour fastness to domestic and commercial laundering

Date of ending the test 08-05-2018
Standard used ISO 105-C06 (2010)

Deviation from the standard 30°C instead of 40°C
Apparatus Gyrowash
Detergent ECE reference detergent
Wash procedure Method A2S
Temperature 30°C
Use of steel balls Yes, number :10
Treatment in acetic acid reagent No

Results

Monofibre

| Numerical rating | |
|-----------------------|---|
| Change in colour | 5 |
| Staining on polyester | 5 |
| Staining on cotton | 5 |

Grading against grey scale for change in colour and/or staining:

Use of a 9 point scale from 5 to 1; where 5 is excellent and 1 is poor. Intermediate values like 2-3 are possible.

Reference: T1809535 - Ponza 7027

Determination of the colour fastness to domestic and commercial laundering

Date of ending the test 08-05-2018
Standard used ISO 105-C06 (2010)

Apparatus Gyrowash
Detergent ECE reference detergent
Wash procedure Method B2S
Temperature 50°C
Use of steel balls Yes, number :10
Treatment in acetic acid reagent No

Results

Monofibre

| Numerical rating | |
|-----------------------|-----|
| Change in colour | 4-5 |
| Staining on polyester | 5 |
| Staining on cotton | 5 |

Grading against grey scale for change in colour and/or staining:

Use of a 9 point scale from 5 to 1; where 5 is excellent and 1 is poor. Intermediate values like 2-3 are possible.

Reference: T1809535 - Ponza 7027

Determination of the colour fastness to domestic and commercial laundering

Date of ending the test 08-05-2018
Standard used ISO 105-C06 (2010)

Apparatus Gyrowash
Detergent ECE reference detergent
Wash procedure Method C2S
Temperature 60°C
Use of steel balls Yes, number :10
Treatment in acetic acid reagent No

Results

Monofibre

| Numerical rating | |
|-----------------------|-----|
| Change in colour | 4-5 |
| Staining on polyester | 5 |
| Staining on cotton | 5 |

Grading against grey scale for change in colour and/or staining:

Use of a 9 point scale from 5 to 1; where 5 is excellent and 1 is poor. Intermediate values like 2-3 are possible.

Reference: T1809535 - Ponza 7027

Determination of the colour fastness to domestic and commercial laundering

Date of ending the test 08-05-2018
Standard used ISO 105-C06 (2010)

Apparatus Gyrowash
Detergent ECE reference detergent
Wash procedure Method D2S
Temperature 70°C
Use of steel balls Yes, number :10
Treatment in acetic acid reagent No

Results

Monofibre

| Numerical rating | |
|-----------------------|-----|
| Change in colour | 4-5 |
| Staining on polyester | 5 |
| Staining on cotton | 5 |

Grading against grey scale for change in colour and/or staining:

Use of a 9 point scale from 5 to 1; where 5 is excellent and 1 is poor. Intermediate values like 2-3 are possible.