

LABORATÓRIOS - V.N.FAMALICÃO



COMPANY
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Request Nr.: 14418/2020

Date of Reception : 2020/07/27

Observations

Samples reference - Your reference

20871/2020 - 50/50 - Colors
20872/2020 - 50/50 - Blue boat / Photograph

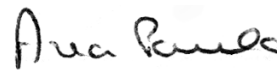
Tests required

Physical tests

- The tests were performed between the following dates: 2020/07/27 and 2020/08/05.

V.N.FAMALICÃO, 06th August 2020

LABORATORY
COORDINATOR



(Eng^a Ana Paula Fonte)

NOTES:

- These results were obtained according to the proceedings referred in the Quality Manual of CITEVE and concern only the samples submitted to testing (above mentioned).
- Any part of this report cannot be reproduced without the prior permission of CITEVE.
- The tests signalled by * are not included in the scope of accreditation of this laboratory
- q.l - quantification limit d.l. - detection limit n.d. - not detected

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<u>Sample Ref.</u>	<u>Your ref.</u>	<u>Sample description</u>
20871 /2020	50/50 - Colors	1 Sample of printed fabric

Test/Standard: COLOUR FASTNESS TO ARTIFICIAL LIGHT / ISO 105-B02:2014

Results

Colour fastness to light rating: > 5

Test Conditions

Apparatus: Air-cooled xenon arc lamp
Exposure method: 3 (BS-5)
Black standard temperature: 47+/-3°C
Humidity test control: rating 5
Evaluation with the blue wool scale

Test/Standard: COLOUR FASTNESS TO DRY RUBBING / ISO 105 X12:2016

Results

Staining (warp or length/weft or width): 4

Notes:

To test all colours it was necessary to prepare 8 specimens, the value displayed is the worst value found.

Test Conditions

Note: the referred value corresponds to the worst value found.
Finger used: cylinder
Force used: 9 N
Direction of test: warp and weft or length and width
Conditioning conditions: min 4 h at 20+/-2°C and 65+/-4% R.H.

Test/Standard: COLOUR FASTNESS TO WET RUBBING / ISO 105 X12:2016

Results

Staining (warp or length/weft or width): 2-3

Notes:

To test all colours it was necessary to prepare 8 specimens, the value displayed is the worst value found.

Test Conditions

Note: the referred value corresponds to the worst value found.
Finger used: cylinder
Force used: 9 N
Percentage of soak: 95% to 100%
Direction of test: warp and weft or length and width
Conditioning conditions: min 4 h at

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20+/-2°C and 65+/-4% R.H.

Test/Standard: COLOUR FASTNESS TO WASHING / ISO 105 C06:2010

Results

Colour change:	4-5
Colour staining on:	
Acetate / Triacetate	4-5
Cotton	4 #
Nylon	4-5
Polyester	4-5
Acrylic	4-5
Wool / Viscose	4-5

Notes:

The staining observed is due to the optical brightener.

To test all colours it was necessary to prepare 4 specimens, the value displayed is the worst value found.

Test Conditions

Test number:	A2S (40°C)
Number of stainless steel balls used:	10
Treatment with acetic acid:	No
Detergent used:	ECE
Multifibre type:	DW

<u>Sample Ref.</u>	<u>Your ref.</u>	<u>Sample description</u>
20872 /2020	50/50 - Blue boat / Photograph	1 Sample of printed fabric

Test/Standard: COLOUR FASTNESS TO ARTIFICIAL LIGHT / ISO 105-B02:2014

Results

Colour fastness to light rating:	5
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Test Conditions

Apparatus:	Air-cooled xenon arc lamp
Exposure method:	3 (BS-5)
Black standard temperature:	47+/-3°C
Humidity test control:	rating 5
Evaluation with the blue wool scale	

Test/Standard: COLOUR FASTNESS TO DRY RUBBING / ISO 105 X12:2016

Results

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Staining (warp or length/weft or width):	4
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Test Conditions

Note: the referred value corresponds to the worst value found.

Finger used: cylinder

Force used: 9 N

Direction of test: warp and weft or length and width

Conditioning conditions: min 4 h at 20+/-2°C and 65+/-4% R.H.

Test/Standard: *COLOUR FASTNESS TO WET RUBBING / ISO 105 X12:2016*

Results

Staining (warp or length/weft or width):	3-4
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Test Conditions

Note: the referred value corresponds to the worst value found.

Finger used: cylinder

Force used: 9 N

Percentage of soak: 95% to 100%

Direction of test: warp and weft or length and width

Conditioning conditions: min 4 h at 20+/-2°C and 65+/-4% R.H.

Test/Standard: *COLOUR FASTNESS TO WASHING / ISO 105 C06:2010*

Results

Colour change:	4-5
Colour staining on:	
Acetate / Triacetate	4-5
Cotton	4 #
Nylon	4-5
Polyester	4-5
Acrylic	4-5
Wool / Viscose	4-5

Notes:

The staining observed is due to the optical brightener.

Test Conditions

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Test number: A2S (40°C)
Number of stainless steel balls used: 10
Treatment with acetic acid: No
Detergent used: ECE
Multifibre type: DW



Request 14418_Sample 20871



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