

Test Report No.: 0154168343a 001

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Contact Person: Anna He

Sample Description As Declared :

No. Of Sample : One(1)

Sample Description : Forma-155 TC65/35 2/1 58/59" 155 GSM Green

**Applicant's Provided
Care Instruction/Label:****Sample Receiving date:** 2016-05-16**Delivery condition:** Apparent good, Samples tested as received**Test Period:** 2016-05-16 to 2016-05-23**For and on behalf of
TÜV Rheinland (Shanghai) Co., Ltd.**

2016-05-23

Tina Wu / Department Manager

Date

Name/Position

*Test result is drawn according to the kind and extent of tests performed.**This test report relates to the a. m. test sample. Without permission of the test center this test report is not permitted to be duplicated in extracts. This test report does not entitle to carry any safety mark on this or similar products.*

Conclusion

	<u>M001</u>
Dimensional Change To Washing	#
Tensile Stength – Strip Test	#
Tearing Strength – Wing Rip Tear	#
Abrasion Resistance	#
Colour Fastness To Washing	#
Colour Fastness To Rubbing	#
Colour Fastness To Light	#
Colour Fastness To Perspiration	#
Pilling Resistance	#

Note : P = Pass
 # = No Comment
 N/A = Not Applicable

F = Fail
 - = Did Not Perform
 * = See Remark

Material list

Material No.	Material	Color	Location
M001	Textile	Green	Woven fabric

1. Dimensional Change To Washing

Test method : ISO 3759:2011 / ISO 6330:2012 / ISO 5077:2007
 Apparatus : Front-loading horizontal rotating drum type
 Test condition : Washing programme 6N, at 60 °C, with 20g Non-phosphate detergent 3, 2kg loading (Type III), tumble dry - delicate

M001

After one wash

Warp -2.2%
 Weft -0.9%

Remark: (+) = Extension
 (-) = Shrinkage

2. Colour Fastness To Washing

Test method : ISO 105-C06:2010
 Test condition : C2S, 30 min mechanical wash at 60°C in 0.4% ECE reference detergent with phosphates and 0.1% sodium perborate with 25 steel balls

M001

Colour change 4-5
 Colour staining
 - Triacetate 4-5
 - Cotton 4-5
 - Polyamide 4
 - Polyester 4-5
 - Acrylic 4-5
 - Viscose 4-5

3. Colour Fastness To Rubbing

Test method : ISO 105-X12:2001

M001

Dry

- Length 4-5
 - Width 4-5

Wet

- Length 4
 - Width 4

4. Colour Fastness To Perspiration

Test method : ISO 105-E04:2013

M001

Requirement

	<u>Acid</u>	<u>Alkaline</u>
Colour change	4-5	4-5
Colour staining		
- Acetate	4-5	4-5
- Cotton	4-5	4-5
- Polyamide	4-5	4-5
- Polyester	4-5	4-5
- Acrylic	4-5	4-5
- Wool	4-5	4-5

5. Colour Fastness To Light

Test method : ISO 105-B02:2014, Method 2
Apparatus : Xenon arc lamp

Up to Grade 4 M001
Grade 4

6. Tensile Strength - Strip Test

Test method : ISO 13934-1:2013

	<u>M001</u>	<u>Requirement</u>
Warp	1200N	
Weft	540N	

7. Tearing Strength (Wing Rip Tear)

Test method : ISO 13937-3:2000

	<u>M001</u>	<u>Requirement</u>
Warp	38N	
Weft	30N	

8. Abrasion Resistance

Test method : ISO 12947-2:1998

	<u>M001</u>	<u>Requirement</u>
No. of Breakdown	>20000	

9. Pilling Resistance - Martindale Method

Test method : ISO 12945-2:2000
No. of rubs : 2000

	<u>M001</u>	<u>Requirement</u>
Rating	3-4	

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Sample Photos



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