

Test Report No.66.405.18.15357.01
Dated:2018-12-12



ORIGINAL

Applicant: Sandviks AS
Address: Strandsvingen 14,4032 Stavanger,Norway
Attention: Sigrid Seim

Sample Information As Declared :

Sample Description: Hat/ Coddle cloth/ Body/ T-shirt/ Trouser/ Dress/ Sleeper/ Bib/ Body/Set pajamas
Fibre Content: 60%viscose of bamboo 40%cotton
Size: 48/50, one size, 62, 92, 74, 134/140, 74, one size, 50, 92
Date Received: 2018-11-29
Test Period: 2018-11-29 to 2018-12-12

Care Instruction/Label :



Do not tumble dry, use wool/silk eco-friendly detergent, please turn garment inside out before washing,
Stretch into shape before drying



Remark: The result relates only to the items tested.

No extract, abridgment or abstraction from a test report may be published or used to advertise a product without the written consent of the General Manager of TÜV SÜD Certification and Testing (China) Co., Ltd. Xia Men Branch. The results contained herein apply only to the particular sample tested and to the specific test carried out and not to samples of the current production line.

Laboratory:
TÜV SÜD Certification and Testing
(China) Co., Ltd.,
Xiamen Branch
Form No.: TC_XMN_F_24.04 E
Rev: A/0
Effective Date:2015-03-23

Phone: +86 592 7706188
Fax: +86 592 7706288
E-mail:
report.softlines@tuv-
sud.cn
www.tuv-sud.cn

Regd. Office:
TÜV SÜD Certification and Testing (China) Co., Ltd.,
Xiamen Branch
Unit 401 No.93 Huli Industrial Park, Meixi Road, Tong'an
District, Xiamen 361100 P. R. China



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Result summary/ Conclusion:

Test Item	
Detection of Sharp Points, Sharp Edges, Small Parts	Pass
Flammability Test	Pass
Azo-Dye Test	Pass
Total Cadmium Content Test	Pass
Total Lead Content Test	Pass
Formaldehyde Content Test	Pass
Phthalates Content Test	Pass
Pentachlorophenol (PCP) Content Test	Pass
Dimethylfumarate (DMFU) Content Test	Pass
Polycyclic Aromatic Hydrocarbons (PAHs) Content Test	Pass
Nickel Release Test	Pass

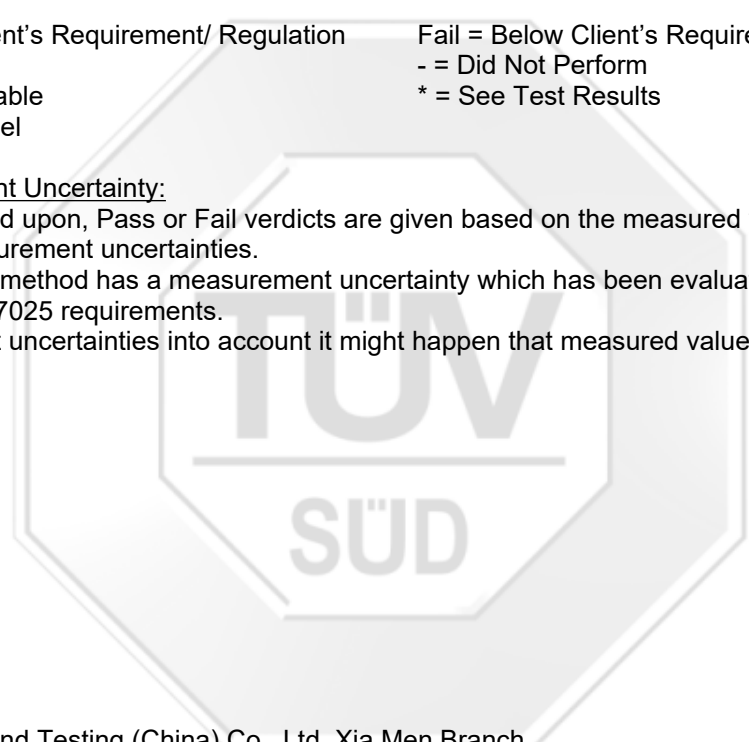
Note : Pass = Meet Client's Requirement/ Regulation Fail = Below Client's Requirement/ Regulation
= No Comment - = Did Not Perform
N/A = Not Applicable * = See Test Results
C = Conform Label

Disclaimer Measurement Uncertainty:

Unless otherwise agreed upon, Pass or Fail verdicts are given based on the measured values without any considerations of measurement uncertainties.

Please note, every test method has a measurement uncertainty which has been evaluated by the laboratory according to ISO/IEC 17025 requirements.

By taking measurement uncertainties into account it might happen that measured values can neither be assessed as PASS nor as FAIL.



TÜV SÜD Certification and Testing (China) Co., Ltd. Xia Men Branch

Approved by:

Jason Zhao
Softlines Department



Qi Liu
Softlines Department







Laboratory:
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Description of the test subject:

Sample	Colour and Description	Photo
001	Lilac/Purple hat	
002	Lilac shell fabric with Purple print	
003	Purple lining fabric with White pigment print	
004	Lilac/Purple coddle cloth	
005	Lilac/Purple body	
006	Lilac body fabric	
007	Silver metal open prong with Purple coating	
008	Silver metal open prong	
009	Purple/Lilac T-shirt	
010	Purple body fabric	
011	Purple fabric with Lilac pigment print	
012	Purple plastic button	
013	Navy trouser	
014	Navy body fabric	
015	Navy fabric with Lt-Blue pigment print	

Sample	Colour and Description	Photo
016	White/Lilac/Purple sleeper	
017	White fabric with Purple/Lilac print	
018	Purple fabric with White pigment print	
019	White/Brown/Black body	
020	White fabric with Brown/Black print	
021	Silver metal open prong with White coating	
022	White/Lt-Blue bib	
023	White fabric with Lt-Blue print	
024	White/Pink body	
025	White fabric with Pink/Lilac print	
026	White/Pink/Brown T-shirt	
027	White fabric with Pink/Brown print	



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Sample	Colour and Description	Photo
028	White/Pink/Brown pants	 A photograph of a pair of pants with a white base and a pattern of pink and brown floral or leaf-like motifs.





Test Results

1. Detection of Sharp Points, Sharp Edges, Small Parts
 (EN 71-1:2014+A1:2018)

	<u>Sharp Point</u> (EN 71-1:2014+A1:2018 8.12)	<u>Sharp Edge</u> (EN 71-1:2014+A1:2018 8.11)	<u>Small Part</u> (EN 71-1:2014+A1:2018 8.2)
<u>005 Snap</u>			
As Received	Pass	Pass	Pass
After torque Test (EN 71-1:2014+A1:2018 8.3)	N/A	N/A	N/A
After tension Test (EN 71-1:2014+A1:2018 8.4)	Pass	Pass	Pass

Remark:

- Small part is applicable for children under 3 years of age.
- Refer to below for tension and torque test performance.
- N/A = Not applicable

Torque Test

(EN 71-1:2014+A1:2018 8.3)

Not Applicable

Attachment Strength Of Accessories

(EN 71-1:2014+A1:2018 8.4)

Requirement:

Components shall not detach under a force of 90N±2N held for duration of 10 seconds.

Sample 005

Specimens

Result

	<u>Snap 1</u>		<u>Snap 2</u>		<u>Snap 3</u>	
	<u>Female</u>	<u>male</u>	<u>Female</u>	<u>male</u>	<u>Female</u>	<u>male</u>
DND	DND	DND	DND	DND	DND	DND

Specimens

Result

	<u>Snap 4</u>		<u>Snap 5</u>	
	<u>Female</u>	<u>male</u>	<u>Female</u>	<u>male</u>
DND	DND	DND	DND	DND

Remark:

DND Did not detach

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1. Detection of Sharp Points, Sharp Edges, Small Parts
 (EN 71-1:2014+A1:2018)

	<u>Sharp Point</u> (EN 71-1:2014+A1:2018 8.12)	<u>Sharp Edge</u> (EN 71-1:2014+ A1:2018 8.11)	<u>Small Part</u> (EN 71-1:2014+ A1:2018 8.2)
<u>009 Button</u>			
As Received	Pass	Pass	Pass
After torque Test (EN 71-1:2014+A1:2018 8.3)	N/A	N/A	N/A
After tension Test (EN 71-1:2014+A1:2018 8.4)	Pass	Pass	Pass

Remark:

1. Small part is applicable for children under 3 years of age.
2. Refer to below for tension and torque test performance.
3. N/A = Not applicable

Torque Test
 (EN 71-1:2014+A1:2018 8.3)

Not Applicable

Attachment Strength Of Accessories
 (EN 71-1:2014+A1:2018 8.4)

Requirement:

Components shall not detach under a force of 90N±2N held for duration of 10 seconds.

Sample 009

Specimens

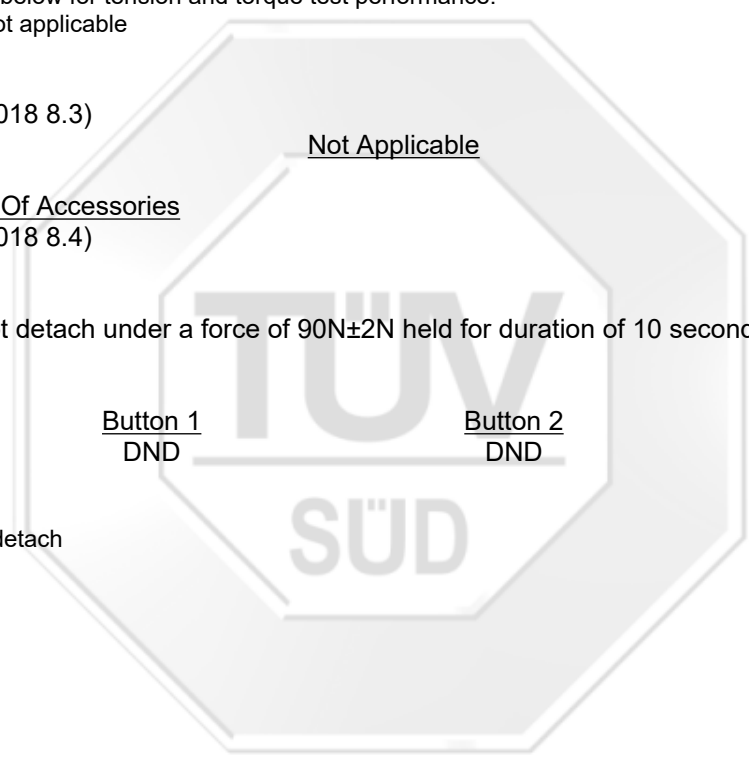
Result

Button 1
DND

Button 2
DND

Remark:

DND Did not detach





ORIGINAL

1. Detection of Sharp Points, Sharp Edges, Small Parts
 (EN 71-1:2014+A1:2018)

	<u>Sharp Point</u> (EN 71-1:2014+A1:2018 8.12)	<u>Sharp Edge</u> (EN 71-1:2014+ A1:2018 8.11)	<u>Small Part</u> (EN 71-1:2014+ A1:2018 8.2)
<u>019 Snap</u>			
As Received	Pass	Pass	Pass
After torque Test (EN 71-1:2014+A1:2018 8.3)	N/A	N/A	N/A
After tension Test (EN 71-1:2014+A1:2018 8.4)	Pass	Pass	Pass

Remark:

1. Small part is applicable for children under 3 years of age.
2. Refer to below for tension and torque test performance.
3. N/A = Not applicable

Torque Test
 (EN 71-1:2014+A1:2018 8.3)

Not Applicable

Attachment Strength Of Accessories
 (EN 71-1:2014+A1:2018 8.4)

Requirement:

Components shall not detach under a force of 90N±2N held for duration of 10 seconds.

Sample 019

	<u>Snap 1</u>		<u>Snap 2</u>		<u>Snap 3</u>	
<u>Specimens</u>	<u>Female</u>	<u>male</u>	<u>Female</u>	<u>male</u>	<u>Female</u>	<u>male</u>
<u>Result</u>	DND	DND	DND	DND	DND	DND
	<u>Snap 4</u>		<u>Snap 5</u>		<u>Snap 6</u>	
<u>Specimens</u>	<u>Female</u>	<u>male</u>	<u>Female</u>	<u>male</u>	<u>Female</u>	<u>male</u>
<u>Result</u>	DND	DND	DND	DND	DND	DND
	<u>Snap 7</u>		<u>Snap 8</u>		<u>Snap 9</u>	
<u>Specimens</u>	<u>Female</u>	<u>male</u>	<u>Female</u>	<u>male</u>	<u>Female</u>	<u>male</u>
<u>Result</u>	DND	DND	DND	DND	DND	DND

Remark:

DND Did not detach



ORIGINAL

1. Detection of Sharp Points, Sharp Edges, Small Parts
 (EN 71-1:2014+A1:2018)

	<u>Sharp Point</u> (EN 71-1:2014+A1:2018 8.12)	<u>Sharp Edge</u> (EN 71-1:2014+ A1:2018 8.11)	<u>Small Part</u> (EN 71-1:2014+ A1:2018 8.2)
<u>022 Snap</u>			
As Received	Pass	Pass	Pass
After torque Test (EN 71-1:2014+A1:2018 8.3)	N/A	N/A	N/A
After tension Test (EN 71-1:2014+A1:2018 8.4)	Pass	Pass	Pass

Remark:

1. Small part is applicable for children under 3 years of age.
2. Refer to below for tension and torque test performance.
3. N/A = Not applicable

Torque Test
 (EN 71-1:2014+A1:2018 8.3)

Not Applicable

Attachment Strength Of Accessories
 (EN 71-1:2014+A1:2018 8.4)

Requirement:

Components shall not detach under a force of 90N±2N held for duration of 10 seconds.

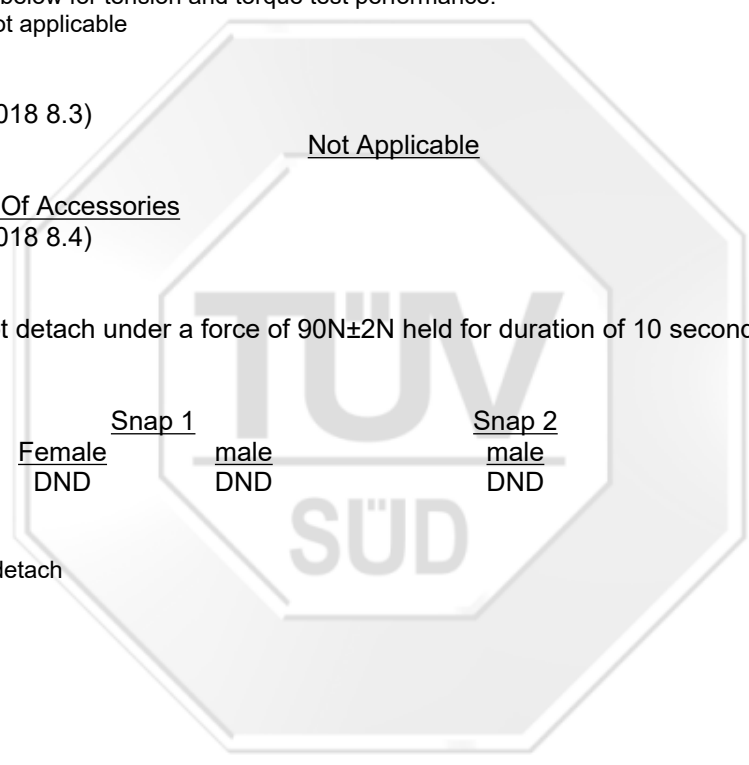
Sample 022

Specimens

	<u>Snap 1</u>	<u>Snap 2</u>
	<u>Female</u>	<u>male</u>
<u>Result</u>	DND	DND

Remark:

DND Did not detach





ORIGINAL

1. Detection of Sharp Points, Sharp Edges, Small Parts
 (EN 71-1:2014+A1:2018)

	<u>Sharp Point</u> (EN 71-1:2014+A1:2018 8.12)	<u>Sharp Edge</u> (EN 71-1:2014+ A1:2018 8.11)	<u>Small Part</u> (EN 71-1:2014+ A1:2018 8.2)
<u>024 Snap</u>			
As Received	Pass	Pass	Pass
After torque Test (EN 71-1:2014+A1:2018 8.3)	N/A	N/A	N/A
After tension Test (EN 71-1:2014+A1:2018 8.4)	Pass	Pass	Pass

Remark:

1. Small part is applicable for children under 3 years of age.
2. Refer to below for tension and torque test performance.
3. N/A = Not applicable

Torque Test
 (EN 71-1:2014+A1:2018 8.3)

Not Applicable

Attachment Strength Of Accessories
 (EN 71-1:2014+A1:2018 8.4)

Requirement:

Components shall not detach under a force of 90N±2N held for duration of 10 seconds.

Sample 024

	<u>Snap 1</u>		<u>Snap 2</u>		<u>Snap 3</u>	
<u>Specimens</u>	<u>Female</u>	<u>male</u>	<u>Female</u>	<u>male</u>	<u>Female</u>	<u>male</u>
<u>Result</u>	DND	DND	DND	DND	DND	DND
	<u>Snap 4</u>		<u>Snap 5</u>		<u>Snap 6</u>	
<u>Specimens</u>	<u>Female</u>	<u>male</u>	<u>Female</u>	<u>male</u>	<u>Female</u>	<u>male</u>
<u>Result</u>	DND	DND	DND	DND	DND	DND
	<u>Snap 7</u>		<u>Snap 8</u>		<u>Snap 9</u>	
<u>Specimens</u>	<u>Female</u>	<u>male</u>	<u>Female</u>	<u>male</u>	<u>Female</u>	<u>male</u>
<u>Result</u>	DND	DND	DND	DND	DND	DND

Remark:

DND Did not detach



ORIGINAL

1. Detection of Sharp Points, Sharp Edges, Small Parts
 (EN 71-1:2014+A1:2018)

	<u>Sharp Point</u> (EN 71-1:2014+A1:2018 8.12)	<u>Sharp Edge</u> (EN 71-1:2014+ A1:2018 8.11)	<u>Small Part</u> (EN 71-1:2014+ A1:2018 8.2)
<u>026 Snap</u>			
As Received	Pass	Pass	Pass
After torque Test (EN 71-1:2014+A1:2018 8.3)	N/A	N/A	N/A
After tension Test (EN 71-1:2014+A1:2018 8.4)	Pass	Pass	Pass

Remark:

1. Small part is applicable for children under 3 years of age.
2. Refer to below for tension and torque test performance.
3. N/A = Not applicable

Torque Test
 (EN 71-1:2014+A1:2018 8.3)

Not Applicable

Attachment Strength Of Accessories
 (EN 71-1:2014+A1:2018 8.4)

Requirement:

Components shall not detach under a force of 90N±2N held for duration of 10 seconds.

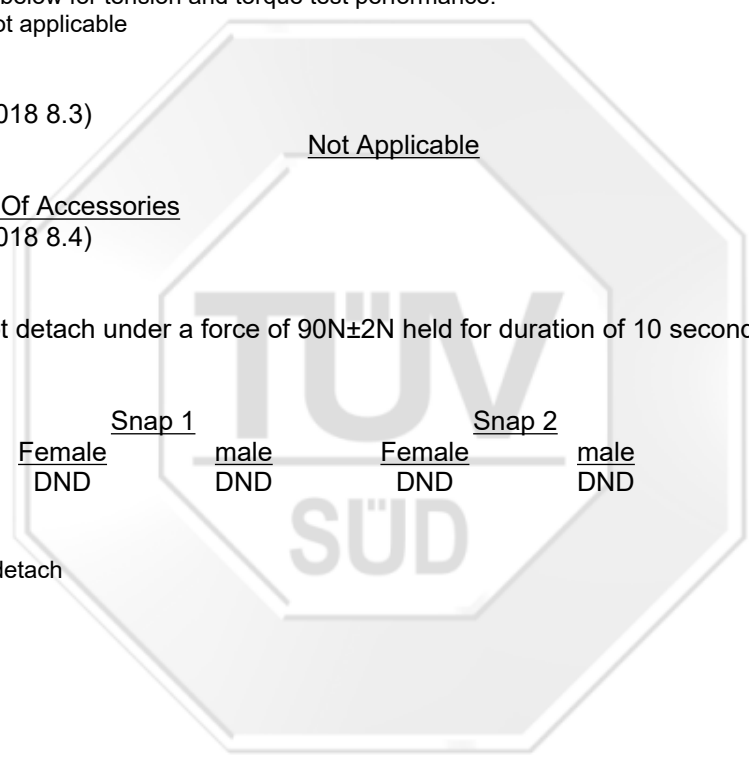
Sample 026

Specimens

	<u>Snap 1</u>		<u>Snap 2</u>	
	<u>Female</u>	<u>male</u>	<u>Female</u>	<u>male</u>
<u>Result</u>	DND	DND	DND	DND

Remark:

DND Did not detach





ORIGINAL

2. Flammability Test

(EN 14878:2007; Flammability test in accordance with EN 1103:2005)

Sample 017 body	Length Direction			Width Direction		
	1	2	3	1	2	3
Specimen Number(As received)	1	2	3	1	2	3
Surface Flash	N	N	N	N	N	N
Time To 3rd Marker Thread (s)	30.8	28.6	29.5	33.6	29.9	39.4
Piece(s) of fabrics comprising the specimen(if applicable)	N	N	N	N	N	N

Remark:

Test Condition: The Apparatus And Method Of Testing Were Those Described In EN 1103-2005 Using A 10-Second Ignition Time On The Surface Of The Specimens

Requirement of Class A : No Surface Flash; 3rd Marker Thread (520 mm) Not Severed In Less Than 15 Seconds.

Requirement of Class B : No Surface Flash; 3rd Marker Thread (520 mm) Not Severed In Less Than 10 Seconds.

Orientation of burner : Surface ignition

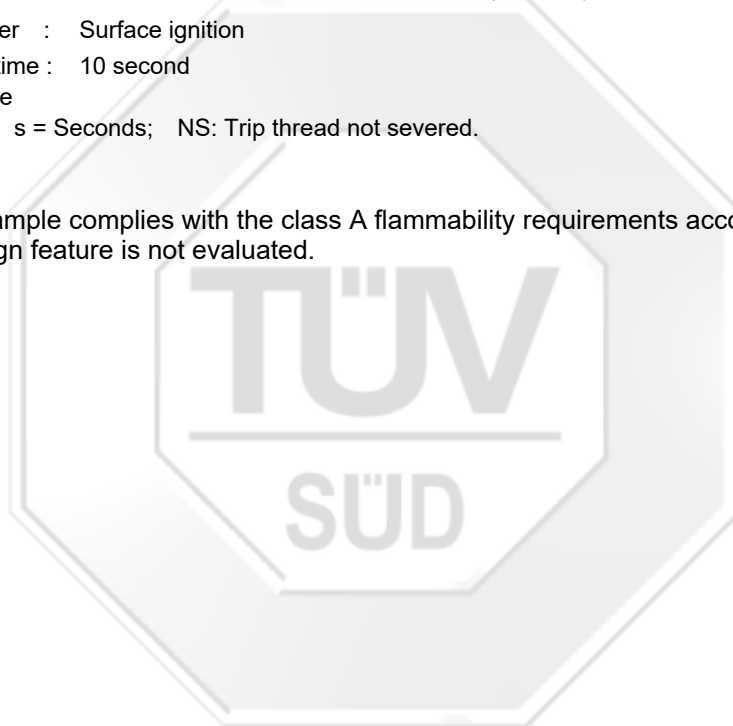
Flame application time : 10 second

Gas used : Propane

Y = Yes; N =No; s = Seconds; NS: Trip thread not severed.

Comment:

The submitted sample complies with the class A flammability requirements according to BS EN 14878:2007, and pyjama design feature is not evaluated.



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3. Azo-Dye Test

(EN 14362-1:2017 /§64 LFGB) B 82.02-2 :2004 and B 82.02-4 :2004 for textiles;
 ISO 17234-1:2015/ (§64 LFGB B 82.02-3 (V) :2004 for Leather;
 EN 14362-3:2017/ ISO 17234-2:2011/§64 LFGB) B 82.02-9:2008 for 4-aminoazobenzene.)
 [Reporting Limit = 5.0 mg/kg]

NO	Forbidden Amine	Result [mg/kg]			
		002	003	011	
01	4-aminobiphenyl	N.D.	N.D.	N.D.	
02	Benzidine	N.D.	N.D.	N.D.	
03	4-chloro-o-toluidine	N.D.	N.D.	N.D.	
04	2-naphthylamine	N.D.	N.D.	N.D.	
05	o-aminoazotoluene	N.D.	N.D.	N.D.	
06	5-nitro-o-toluidine	N.D.	N.D.	N.D.	
07	4-chloroaniline	N.D.	N.D.	N.D.	
08	2,4-diaminoanisole	N.D.	N.D.	N.D.	
09	4,4'-diaminodiphenylmethane	N.D.	N.D.	N.D.	
10	3,3'-dichlorobenzidine	N.D.	N.D.	N.D.	
11	3,3'-dimethoxybenzidine	N.D.	N.D.	N.D.	
12	3,3'-dimethylbenzidine	N.D.	N.D.	N.D.	
13	4,4'-methylenedi-o-toluidine	N.D.	N.D.	N.D.	
14	p-cresidine	N.D.	N.D.	N.D.	
15	4,4'-methylene-bis-(2-chloro-aniline)	N.D.	N.D.	N.D.	
16	4,4'-oxydianiline	N.D.	N.D.	N.D.	
17	4,4'-thiodianiline	N.D.	N.D.	N.D.	
18	o-toluidine	N.D.	N.D.	N.D.	
19	2,4-toluenediamine	N.D.	N.D.	N.D.	
20	2,4,5-trimethylaniline	N.D.	N.D.	N.D.	
21	2-methoxyaniline	N.D.	N.D.	N.D.	
22	2,4-xylidine#	N.D.	N.D.	N.D.	
23	2,6-xylidine#	N.D.	N.D.	N.D.	
24	4-aminoazobenzene	N.D.	N.D.	N.D.	
	Method	With extraction Without extraction	With extraction Without extraction	With extraction Without extraction	Client / Regulation Limit Conclusion
		30 mg/kg Pass	30 mg/kg Pass	30 mg/kg Pass	

- Notes:
1. “#” denotes 2,4-xylidine and 2,6-xylidine are not under Regulation (EC) No.1907/2006 and they are for client's reference
 2. “mg/kg” denotes milligram per kilogram
 3. “N.D.” denotes Not Detected

Interpretation of test results:

- (1) In the case of the measured value per amine component ≤30 mg/kg and according to the analysis carried out, the azo colourants banned under the Annex XVII of Regulation (EC) No. 1907/2006, REACH are not detected in the article submitted.
- (2) In the case of the measured value per amine component > 30 mg/kg, the analysis result suggests that the submitted article was manufactured or treated with the azo colourants banned under Annex XVII of Regulation (EC) No. 1907/2006, REACH
- (3) In the case of the measured value per amine component being between 25 and 35 mg/kg, it is remarked that due to the inherent uncertainty of the detection method, the value represent a border line case.

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3. Azo-Dye Test

(EN 14362-1:2017 /§64 LFGB) B 82.02-2 :2004 and B 82.02-4 :2004 for textiles;
 ISO 17234-1:2015/ (§64 LFGB B 82.02-3 (V) :2004 for Leather;
 EN 14362-3:2017/ ISO 17234-2:2011/§64 LFGB) B 82.02-9:2008 for 4-aminoazobenzene.)
 [Reporting Limit = 5.0 mg/kg]

NO	Forbidden Amine	Result [mg/kg]			
		015	017	018	
01	4-aminobiphenyl	N.D.	N.D.	N.D.	
02	Benzidine	N.D.	N.D.	N.D.	
03	4-chloro-o-toluidine	N.D.	N.D.	N.D.	
04	2-naphthylamine	N.D.	N.D.	N.D.	
05	o-aminoazotoluene	N.D.	N.D.	N.D.	
06	5-nitro-o-toluidine	N.D.	N.D.	N.D.	
07	4-chloroaniline	N.D.	N.D.	N.D.	
08	2,4-diaminoanisole	N.D.	N.D.	N.D.	
09	4,4'-diaminodiphenylmethane	N.D.	N.D.	N.D.	
10	3,3'-dichlorobenzidine	N.D.	N.D.	N.D.	
11	3,3'-dimethoxybenzidine	N.D.	N.D.	N.D.	
12	3,3'-dimethylbenzidine	N.D.	N.D.	N.D.	
13	4,4'-methylenedi-o-toluidine	N.D.	N.D.	N.D.	
14	p-cresidine	N.D.	N.D.	N.D.	
15	4,4'-methylene-bis-(2-chloro-aniline)	N.D.	N.D.	N.D.	
16	4,4'-oxydianiline	N.D.	N.D.	N.D.	
17	4,4'-thiodianiline	N.D.	N.D.	N.D.	
18	o-toluidine	N.D.	N.D.	N.D.	
19	2,4-toluenediamine	N.D.	N.D.	N.D.	
20	2,4,5-trimethylaniline	N.D.	N.D.	N.D.	
21	2-methoxyaniline	N.D.	N.D.	N.D.	
22	2,4-xylidine#	N.D.	N.D.	N.D.	
23	2,6-xylidine#	N.D.	N.D.	N.D.	
24	4-aminoazobenzene	N.D.	N.D.	N.D.	
	Method	With extraction Without extraction	With extraction Without extraction	With extraction Without extraction	With extraction Without extraction
	Client / Regulation Limit	30 mg/kg	30 mg/kg	30 mg/kg	30 mg/kg
	Conclusion	Pass	Pass	Pass	Pass

- Notes:
1. “#” denotes 2,4-xylidine and 2,6-xylidine are not under Regulation (EC) No.1907/2006 and they are for client's reference
 2. “mg/kg” denotes milligram per kilogram
 3. “N.D.” denotes Not Detected

Interpretation of test results:

- (1) In the case of the measured value per amine component ≤30 mg/kg and according to the analysis carried out, the azo colourants banned under the Annex XVII of Regulation (EC) No. 1907/2006, REACH are not detected in the article submitted.
- (2) In the case of the measured value per amine component > 30 mg/kg, the analysis result suggests that the submitted article was manufactured or treated with the azo colourants banned under Annex XVII of Regulation (EC) No. 1907/2006, REACH
- (3) In the case of the measured value per amine component being between 25 and 35 mg/kg, it is remarked that due to the inherent uncertainty of the detection method, the value represent a border line case.

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3. Azo-Dye Test

(EN 14362-1:2017 /§64 LFGB) B 82.02-2 :2004 and B 82.02-4 :2004 for textiles;
 ISO 17234-1:2015/ (§64 LFGB B 82.02-3 (V) :2004 for Leather;
 EN 14362-3:2017/ ISO 17234-2:2011/§64 LFGB) B 82.02-9:2008 for 4-aminoazobenzene.)
 [Reporting Limit = 5.0 mg/kg]

NO	Forbidden Amine	Result [mg/kg]			
		020	023+025	027	
01	4-aminobiphenyl	N.D.	N.D.	N.D.	
02	Benzidine	N.D.	N.D.	N.D.	
03	4-chloro-o-toluidine	N.D.	N.D.	N.D.	
04	2-naphthylamine	N.D.	N.D.	N.D.	
05	o-aminoazotoluene	N.D.	N.D.	N.D.	
06	5-nitro-o-toluidine	N.D.	N.D.	N.D.	
07	4-chloroaniline	N.D.	N.D.	N.D.	
08	2,4-diaminoanisole	N.D.	N.D.	N.D.	
09	4,4'-diaminodiphenylmethane	N.D.	N.D.	N.D.	
10	3,3'-dichlorobenzidine	N.D.	N.D.	N.D.	
11	3,3'-dimethoxybenzidine	N.D.	N.D.	N.D.	
12	3,3'-dimethylbenzidine	N.D.	N.D.	N.D.	
13	4,4'-methylenedi-o-toluidine	N.D.	N.D.	N.D.	
14	p-cresidine	N.D.	N.D.	N.D.	
15	4,4'-methylene-bis-(2-chloro-aniline)	N.D.	N.D.	N.D.	
16	4,4'-oxydianiline	N.D.	N.D.	N.D.	
17	4,4'-thiodianiline	N.D.	N.D.	N.D.	
18	o-toluidine	N.D.	N.D.	N.D.	
19	2,4-toluenediamine	N.D.	N.D.	N.D.	
20	2,4,5-trimethylaniline	N.D.	N.D.	N.D.	
21	2-methoxyaniline	N.D.	N.D.	N.D.	
22	2,4-xylidine#	N.D.	N.D.	N.D.	
23	2,6-xylidine#	N.D.	N.D.	N.D.	
24	4-aminoazobenzene	N.D.	N.D.	N.D.	
	Method	With extraction Without extraction	With extraction Without extraction	With extraction Without extraction	
	Client / Regulation Limit	30 mg/kg	30 mg/kg	30 mg/kg	
	Conclusion	Pass	Pass	Pass	

- Notes:
1. “#” denotes 2,4-xylidine and 2,6-xylidine are not under Regulation (EC) No.1907/2006 and they are for client's reference
 2. “mg/kg” denotes milligram per kilogram
 3. “N.D.” denotes Not Detected

Interpretation of test results:

- (1) In the case of the measured value per amine component ≤30 mg/kg and according to the analysis carried out, the azo colourants banned under the Annex XVII of Regulation (EC) No. 1907/2006, REACH are not detected in the article submitted.
- (2) In the case of the measured value per amine component > 30 mg/kg, the analysis result suggests that the submitted article was manufactured or treated with the azo colourants banned under Annex XVII of Regulation (EC) No. 1907/2006, REACH
- (3) In the case of the measured value per amine component being between 25 and 35 mg/kg, it is remarked that due to the inherent uncertainty of the detection method, the value represent a border line case.



ORIGINAL

4. Total Cadmium Content Test

(Microwave digestion and detection with ICP-OES/AAS)
 [Reporting Limit = 10.0 mg/kg]

Sample	Result [mg/kg]	Client's Requirement [mg/kg]	Conclusion
003+011+015	N.D.	<100	Pass
012	N.D.	<100	Pass
018	N.D.	<100	Pass

(Acid digestion and detection with ICP-OES/AAS)
 [Reporting Limit = 10.0 mg/kg]

Sample	Result [mg/kg]	Client's Requirement [mg/kg]	Conclusion
007	N.D.	<100	Pass
021	N.D.	<100	Pass

Remark:

"N.D." denotes Not Detected
 "mg/kg" denotes milligram per kilogram
 "<" denotes less than

5. Total Lead Content Test

(Microwave digestion and detection with ICP-OES/AAS
 [Reporting Limit = 10.0 mg/kg]

Sample	Result [mg/kg]	Client's Requirement [mg/kg]	Conclusion
003+011+015	N.D.	<500	Pass
012	N.D.	<500	Pass
018	N.D.	<500	Pass

(Acid digestion and detection with ICP-OES/AAS
 [Reporting Limit = 10.0 mg/kg]

Sample	Result [mg/kg]	Client's Requirement [mg/kg]	Conclusion
007	21.3	<500	Pass
021	32.0	<500	Pass

Remark:

"N.D." denotes Not Detected
 "mg/kg" denotes milligram per kilogram
 "<" denotes less than

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Dated:2018-12-12



ORIGINAL

6. Formaldehyde Content Test

(ISO 14184-1:2011 Water Extraction Method, UV-Visible spectroscopy)
 [Reporting limit=16 mg/kg]

Sample	Result [mg/kg]	Client's Requirement [mg/kg]	Conclusion
006	N.D.	<20	Pass
010	N.D.	<20	Pass
014	N.D.	<20	Pass
017	N.D.	<20	Pass
018	N.D.	<20	Pass
020	N.D.	<20	Pass
023	N.D.	<20	Pass
025	N.D.	<20	Pass
027	N.D.	<20	Pass

Remark:

"N.D." denotes Not Detected
 "mg/kg" denotes milligram per kilogram
 "<" denotes less than

7. Phthalates Content Test

(According to ISO 14389:2014, solvent extraction and GC-MS analysis)
 [Reporting Limit = 0.005 %]

Regulated Phthalates	003+011+015	Result [%]	018
Dibutyl phthalate, DBP	N.D.	N.D.	N.D.
Benzyl butyl phthalate, BBP	N.D.	N.D.	N.D.
Bis (2-ethylhexyl) phthalate, DEHP	N.D.	N.D.	N.D.
Di-n-octyl phthalate, DNOP	N.D.	N.D.	N.D.
Di-isononyl phthalate, DINP	N.D.	N.D.	N.D.
Di-isodecyl phthalate, DIDP	N.D.	N.D.	N.D.
Sum of DEHP,DBP,BBP	N.D.	N.D.	N.D.
Sum of DINP,DIDP,DNOP	N.D.	N.D.	N.D.
<u>Client's Requirement</u>		Sum of DEHP,DBP,BBP <0.1%, Sum of DINP,DIDP,DNOP <0.1%	
Conclusion	Pass	Pass	Pass

Remark:

"N.D." denotes Not Detected
 "%" denotes percentage by weight
 "<" denotes less than



ORIGINAL

8. Pentachlorophenol PCP Content Test

(Client's specification test according to DIN EN ISO 17070:2007, determined by GC-ECD/GC - MSD analysis)
 [Reporting Limit = 0.05 mg/kg]

Sample	Result [mg/kg]	Client's Requirement [mg/kg]	Conclusion
006	N.D.	< 5.0	Pass
010	N.D.	< 5.0	Pass
014	N.D.	< 5.0	Pass
017	N.D.	< 5.0	Pass
020	N.D.	< 5.0	Pass
023	N.D.	< 5.0	Pass
025	N.D.	< 5.0	Pass
027	N.D.	< 5.0	Pass

Remark:

"N.D." denotes Not Detected

"mg/kg" denotes milligram per kilogram

"<" denotes less than

9. Dimethylfumarate (DMFU) Content Test

(CEN ISO / TS 16186, determined by GC-MS)
 [Reporting Limit = 0.1 mg/kg]

Sample	Result (mg/kg)	Client's Requirement (mg/kg)	Conclusion
006	N.D.	< 0.1	Pass
010	N.D.	< 0.1	Pass
014	N.D.	< 0.1	Pass
017	N.D.	< 0.1	Pass
018	N.D.	< 0.1	Pass
020	N.D.	< 0.1	Pass
023	N.D.	< 0.1	Pass
025	N.D.	< 0.1	Pass
027	N.D.	< 0.1	Pass

Remark:

"N.D." denotes Not Detected

"mg/kg" denotes milligram per kilogram

"<" denotes less than



10. Polycyclic Aromatic Hydrocarbons (PAHs) Content Test

(Test with reference to Afps GS 2014:01, determined by GC-MS analysis)
 [Reporting Limit = 0.10 mg/kg]

Compounds	Results (mg/kg)		
	003+011	012	015+018
Benzo[a]pyrene	N.D.	N.D.	N.D.
Benzo[e]pyrene	N.D.	N.D.	N.D.
Benzo[a]anthracene	N.D.	N.D.	N.D.
Benzo[b]fluoranthene	N.D.	N.D.	N.D.
Benzo[j]fluoranthene	N.D.	N.D.	N.D.
Benzo[k]fluoranthene	N.D.	N.D.	N.D.
Chrysene	N.D.	N.D.	N.D.
Dibenzo[ah]anthracene	N.D.	N.D.	N.D.
Benzo[ghi]perylene	N.D.	N.D.	N.D.
Indeno[1,2,3-cd]pyrene	N.D.	N.D.	N.D.
Acenaphthylene	N.D.	N.D.	N.D.
Acenaphthene	N.D.	N.D.	N.D.
Anthracene	N.D.	N.D.	N.D.
Fluorene	N.D.	N.D.	N.D.
Phenanthrene	N.D.	N.D.	N.D.
Pyrene	N.D.	N.D.	N.D.
Fluoranthene	N.D.	N.D.	N.D.
Naphthalene	N.D.	N.D.	N.D.
Sum of 18 PAHs	N.D.	N.D.	N.D.
Client's Requirement	Each<0.2 mg/kg,Sum <10 mg/kg		
Conclusion	Pass	Pass	Pass

Remark:

- "N.D." denotes Not Detected
- "mg/kg" denotes milligram per kilogram
- "<" denotes less than

11. Nickel Release Test

(Test according to EN 12472:2009 and EN 1811:2011+A1:2015)
 [Reporting Limit = 0.05 µg/cm²/week]

Sample	Trial	Size of Tested sample Area (cm ²)	Volume of Test Solution Used (mL)	Nickel Release (µg/cm ² /week)	Maximum Permissible Limit (µg/cm ² /week)	Conclusion
008	1 st sample	0.73	3.00	<0.05	0.5	Pass
	2 nd sample	0.73	3.00	<0.05		
	3 rd sample	0.73	3.00	<0.05		

- Note:
1. "<" denotes less than
 2. "cm²" denotes square centimeters
 3. "µg/cm²/week" denotes microgram per square centimeters per week
 4. "mL" denotes milliliter
 5. A larger volume to surface area ratio was used due to the purpose of fully immersion.

- END OF REPORT -