

The Following sample(s) was/were submitted and identified by the client as

Sample Description : Hat: 100% wool (sweatband: 100% polyester tape: 100% polyester) in black

Brand : ZARA WOMEN

Style No. : 4373/005/800

Order No. : 54481-D

Country of Destination : Spain

Test Performed : Selected test(s) as requested by applicant against client's performance standard

* * * * *

Sample Receiving Date : OCT 24, 2018

Testing Period : OCT 24, 2018 –NOV 03, 2018

Test Result(s) : Unless otherwise stated the results shown in this test report refer only to the sample(s) tested, for further details, please refer to the following page(s).

Conclusion :

Water Fastness M

Perspiration Fastness M

Dry Rubbing Fastness M

Wet Rubbing Fastness See Results

Fibre Content See Result #

Azo Dye M

Formaldehyde Content M

pH Value M

Cadmium in Substrate M

Lead in Substrate M

Nickel Release M

Remarks: M=Meet Client's Requirement
 # = For labeling requirements and test conclusion refer to Inditex Labeling Standard
<https://extranet.inditex.com/extranet>

Signed for and on behalf of
 SGS-CSTC Standards Technical Services (Shanghai) Co. Ltd.

Sunny Shu

Sunny Shu (Account Executive)



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Test Result

Tested Component List / List of Materials

Sample	Material No.	Component Description	Material	Remark
/	1	Black main fabric	Textile	-
/	2	black sweatband	Textile	-
/	3	Black decoration tape	Textile	-
/	4	Black chain	Metal	-
/	5	Silver round rhinestone	Glass	-
/	6	Silver square rhinestone holder	Metal	-
/	7	Silver link piece	Metal	-



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		<u>Requirement</u>
1		
<u>Color Fastness to Water</u> (GB/T 5713-2013)		
Change in shade	4-5	Min. 3
Staining on single-fiber stripe		
Cotton	4-5	Min. 3
Wool	4-5	
<u>Colour Fastness to Perspiration</u> (GB/T 3922-2013)		
<u>Acidic</u>		
Change in shade	4-5	Min. 3
Staining on single-fiber stripe		
Polyester	4-5	Min. 3
Wool	4-5	
<u>Alkaline</u>		
Change in shade	4-5	Min. 3
Staining on single-fiber stripe		
Polyester	4	Min. 3
Wool	4	
2		
<u>Color Fastness to Water</u> (GB/T 5713-2013)		
Change in shade	4-5	Min. 3
Staining on single-fiber stripe		
Polyester	4-5	Min. 3
Wool	4-5	
<u>Colour Fastness to Perspiration</u> (GB/T 3922-2013)		
<u>Acidic</u>		
Change in shade	4-5	Min. 3
Staining on single-fiber stripe		
Polyester	4-5	Min. 3
Wool	4-5	
<u>Alkaline</u>		
Change in shade	4-5	Min. 3
Staining on single-fiber stripe		
Polyester	4-5	Min. 3
Wool	4-5	

Remarks: 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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Requirement

Color Fastness to Rubbing (GB/T 3920-2008) **1+2**

Dry staining	4-5	Min. 3
Wet staining	2-3	-

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

Fibre Content

		Method Standard	Sample / Material No.	Test Result*	
Fibre Content (%)	Tested Fibre content		1		
	Shell: 面料:	Wool 绵羊毛		100%	/
		FZ/T01057.3-2007 FZ/T01057.4-2007			

* For labeling requirements and test conclusion refer to Inditex Labeling Standard <https://extranet.inditex.com/extranet>



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Arylamines

Test Method: Inditex In-house method with reference to EN 14362-1:2003; with the use of Gas Chromatography – Mass Spectrometry (GC-MS) / HPLC-DAD.

Amines	CAS-No.	Result
		1+3
4-Aminodiphenyl	92-67-1	n.d.
Benzidine	92-87-5	n.d.
4-Chlor-o-Toluidine	95-69-2	n.d.
2-Naphtylamine	91-59-8	n.d.
o-Aminoazotoluene	97-56-3	n.d.
2-Amino-4-nitrotoluene	99-55-8	n.d.
p-Chloraniline	106-47-8	n.d.
2,4-Diaminoanisole	615-05-4	n.d.
4,4'-Diaminodiphenylmethane	101-77-9	n.d.
3,3'-Dichlorbenzidine	91-94-1	n.d.
3,3'-Dimethoxybenzidine	119-90-4	n.d.
3,3'-Dimethylbenzidine	119-93-7	n.d.
3,3'-Dimethyl-4,4'-diaminodiphenylmethane	838-88-0	n.d.
p-Cresidine	120-71-8	n.d.
4,4'-Methylen-bis-(2-chloraniline)	101-14-4	n.d.
4,4'-Oxydianiline	101-80-4	n.d.
4,4'-Thiodianiline	139-65-1	n.d.
o-Toluidine	95-53-4	n.d.
2,4-Toluyldiamine	95-80-7	n.d.
2,4,5-Trimethylaniline	137-17-7	n.d.
o-Anisidin	90-04-0	n.d.
4-Aminoazobenzene	60-09-3	n.d.
2,4-Xylidine	95-68-1	n.d.
2,6-Xylidine	87-62-7	n.d.
Conclusion		PASS

Note: Composite test has been performed as per client's special request.

n.d. = not detectable

Detection Limit = 5 mg/kg

Client's Requirement: 20 mg/kg

Remark: Test result for 4-aminoazobenzene (CAS 60-09-3) is considered as "not detected" (i.e. <5 mg/kg) since both aniline and/or 1,4-phenylenediamine is not found (i.e. <5 mg/kg) by mentioned test method.



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Arylamines

Test Method: Inditex In-house method with reference to EN 14362-2:2003; with the use of Gas Chromatography – Mass Spectrometry (GC-MS) / HPLC-DAD.

Amines	CAS-No.	Result
		2+3
4-Aminodiphenyl	92-67-1	n.d.
Benzidine	92-87-5	n.d.
4-Chlor-o-Toluidine	95-69-2	n.d.
2-Naphtylamine	91-59-8	n.d.
o-Aminoazotoluene	97-56-3	n.d.
2-Amino-4-nitrotoluene	99-55-8	n.d.
p-Chloraniline	106-47-8	n.d.
2,4-Diaminoanisole	615-05-4	n.d.
4,4'-Diaminodiphenylmethane	101-77-9	n.d.
3,3'-Dichlorbenzidine	91-94-1	n.d.
3,3'-Dimethoxybenzidine	119-90-4	n.d.
3,3'-Dimethylbenzidine	119-93-7	n.d.
3,3'-Dimethyl-4,4'-diaminodiphenylmethane	838-88-0	n.d.
p-Cresidine	120-71-8	n.d.
4,4'-Methylen-bis-(2-chloraniline)	101-14-4	n.d.
4,4'-Oxydianiline	101-80-4	n.d.
4,4'-Thiodianiline	139-65-1	n.d.
o-Toluidine	95-53-4	n.d.
2,4-Toluyldiamine	95-80-7	n.d.
2,4,5-Trimethylaniline	137-17-7	n.d.
o-Anisidin	90-04-0	n.d.
4-Aminoazobenzene	60-09-3	n.d.
2,4-Xylidine	95-68-1	n.d.
2,6-Xylidine	87-62-7	n.d.
Conclusion		PASS

Note: Composite test has been performed as per client's special request.

n.d. = not detectable

Detection Limit = 5 mg/kg

Client's Requirement: 20 mg/kg

Remark: Test result for 4-aminoazobenzene (CAS 60-09-3) is considered as "not detected" (i.e. <5 mg/kg) since both aniline and/or 1,4-phenylenediamine is not found (i.e. <5 mg/kg) by mentioned test method.



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Formaldehyde

Test Method: Inditex SOP – ITX-GB/T 2912.1/2012C, analysis by UV-VIS for Textile.

	Measured Result	Corrected Result
	1+2	1+2
Free Formaldehyde	n.d.	n.d.
Conclusion	PASS	

Note: Composite test has been performed as per client’s special request.
 n.d. = not detected
 Detection Limit = 2 mg/kg
Client’s Requirement:
75 mg/kg (in contact with skin)
300 mg/kg (without contact with skin)

pH Value

Test Method: Textile - GB/T 7573-2009.

	Result	
pH Value	1 6.2	2 6.2
Conclusion	Pass	

Client’s Requirement: **4.0 – 7.5 (Baby)**
4.0 – 7.5 (>3 years old, in contact with skin)
4.0 – 9.0 (>3 years old, without contact with skin)

Note:
 pH value of extraction medium: 5.7
 Temperature of the extraction solution: 21.1°C



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Total Heavy metal
Tested Component List / List of Materials

Composite No.	Component Description	Material
CS1	4+6+7	metal

Composite Testing

Test Parameter	Test Composite Sample	Test Result	Client's Splitting Limit	Retest Needed
Lead in accessible substrate materials Client's SOP-A-022/023/024	CS1	38.4 mg/kg	50 mg/kg	No
Cadmium in accessible substrate materials Client's SOP-A-022/023/024.	CS1	63.3 mg/kg *	50 mg/kg	Yes

Re-test of Positive Composite Sample

Test Parameter	Positive Composite Sample	Tested Sample	Test Result	Client's Requirement
Cadmium in accessible substrate materials Client's SOP-A-022/024.	CS1	4	61.4 mg/kg	75 mg/kg
	CS1	6	<5.0 mg/kg	75 mg/kg
	CS1	7	<5.0 mg/kg	75 mg/kg

Individual Testing

Test Parameter	Tested Sample	Test Result	Client's Requirement
Lead in accessible substrate materials Client's SOP-A-022/024	5	<10.0 mg/kg	100 mg/kg
Cadmium in accessible substrate materials Client's SOP-A-022/024.	5	<5.0 mg/kg	75 mg/kg

Notes :

- (1) ppm (part per million) = mg/kg
- (2) Method Detection Limit (MDL) = 0.001mg/L
- (3) A test result for a composite sample below Client Splitting Limit (50 mg/kg for Lead/Cadmium in paint/similar surface coating material, or 50 mg/kg for Lead/Cadmium in accessible substrate materials)



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- (4) Composite test has been performed as per special request of Client and in accordance with Client's "CPSIA Reasonable & Responsible Testing Program".
- (5) Usually the same sample amount of each individual specimen is taken for sample composition, as it is recommended in the Client's "CPSIA Reasonable & Responsible Testing Program". Otherwise, if the amount of each specimen is different, the result for composite sample must be calculated using the minimum sample amount taken.
- (6) * = The test result is over the composite limit as specified by Client. The individual testing from each extract liquid (never from the raw materials) should be carried out.



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Nickel release

Test Method : EN 1811:2011+ AC:2012. Analysis was performed by AAS, ICP-OES or ICP-MS.

<u>Test Item(s)</u>	<u>4</u>
Volume of Test Solution	2.00 mL
Sample Area	1.39 cm ²
Nickel Release	ND
Conclusion	PASS

<u>Test Item(s)</u>	<u>6</u>
Volume of Test Solution	2.00 mL
Sample Area	0.32 cm ²
Nickel Release	ND
Conclusion	PASS

<u>Test Item(s)</u>	<u>7</u>
Volume of Test Solution	2.00 mL
Sample Area	0.26 cm ²
Nickel Release	ND
Conclusion	PASS

Notes :

μ g/cm²/week = microgram per square centimeter per week

n.d.= not detected

Detection Limit = 0.1 μ g/cm²/week

Client's Requirement:

Non-body piercing article - 0.5 μ g/cm²/week;

Body piercing article - 0.2 μ g/cm²/week

CR 12471:2002 Clause 5.3.4 is employed for Nickel screening. For coated samples, simulation of wear and corrosion by the EN 12472:2005 + A1:2009 will be performed for any negative findings by screening.

Comments are given according to Annex A of EN1811:2011+AC: 2012 as below:

Type of sample	Nickel Release (μg/cm ² /week)		
	PASS	NO CLEAR DECISION*	FAIL
Article with Nickel release limit of 0.5μg/cm ² /week	≤ 0.28	>0.28 and <0.88	≥ 0.88
Article with Nickel release limit of 0.2μg/cm ² /week	≤ 0.11	>0.11 and <0.35	≥ 0.35

* No clear decision = Inconclusive



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