



Test Report

No. SHSL1609165483TX

Date: Sep 25, 2016

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ZHEJIANG SAS ZIPPER CO., LTD
XING IN XIUZHOU DISTRICT OF JIAXING CITY ZHEJIANG PROVINCE PORT ROAD 456

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

Sample Description : Zipper: polyester/copper/zinc alloy 3# metal close-end in khaki

Brand : ZARA

Age Group : Adult

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

* * * * *

Sample Receiving Date : SEP 15, 2016

Testing Period : SEP 15, 2016 – SEP 25, 2016

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 :

Azo Dye M

Formaldehyde Content M

Cadmium in Substrate M

Lead in Substrate M

Nickel Release M

Remarks: M=Meet Client's Requirement

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



Sunny Shu (Account Executive)



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Test Result

Detection and Determination of Certain Listed Aromatic Amines Derived from Azo Colorants

Test Method:

Polyesters-EN 14362-2:2003; with the use of Gas Chromatography –Mass Spectrometry (GC-MS)/ HPLC-DAD

Amines	CAS-Nr.	Result
		Zipper tape
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: n.d. = not detectable

Detection Limit = 5 mg/kg

Client's Requirement: 20 mg/kg (for textile products)

30 mg/kg (for fur and leather products)

Remark: Test result for 4-aminoazobenzene (CAS no.: 60-09- 3) is considered as "not detected" (i.e. <5mg/kg) since both aniline and/or 1,4-phenylenediamine is not found (i.e. <5mg/kg) by mentioned test method.



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Formaldehyde

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

	Result
Free Formaldehyde	Zipper tape
	n.d.
Conclusion	Pass

Note: n.d.=not detected
Detection Limit = 2 mg/kg

**Client's Requirement: 16 mg/kg (textile for Baby) / 20 mg/kg (leather for Baby)
75 mg/kg (>3 years old, in contact with skin)
300 mg/kg (>3 years old, without contact with skin)**

Tested Component List / List of Materials

Sample & Material No.	Component Description	Material
A1	Gold zipper top stop	Metal
A2	Gold zipper teeth	Metal
A3	Gold zipper puller	Metal
A4	Gold zipper slider	Metal
A5	Gold zipper bottom stop	Metal
A6	Gold zipper head	Metal
A7	Gold zipper top stop & teeth & bottom stop	Metal

Total Heavy metal

Tested Component List / List of Materials

Composite No.	Component Description	Material
CS1	A1+A2+A3+A4+A5	Metal



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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	86.5 mg/kg *	50 mg/kg	Yes
Cadmium in accessible substrate materials Client's SOP-A-022/023/024.	CS1	12.5 mg/kg	50 mg/kg	No

Re-test of Positive Composite Sample

Test Parameter	Positive Composite Sample	Tested Sample	Test Result	Client's Requirement
Lead in accessible substrate materials Client's SOP-A-022/024	CS1	A1	15.0 mg/kg	100 mg/kg
	CS1	A2	<10.0 mg/kg	100 mg/kg
	CS1	A3	13.9 mg/kg	100 mg/kg
	CS1	A4	13.3 mg/kg	100 mg/kg
	CS1	A5	37.2 mg/kg	100 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)
- (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>	A6
Volume of Test Solution	6.80 mL
Sample Area	6.82 cm ²
Nickel Release	ND
Conclusion	PASS

<u>Test Item(s)</u>	A7
Volume of Test Solution	3.00 mL
Sample Area	2.95 cm ²
Nickel Release	ND
Conclusion	PASS

Notes :

μg/cm²/week = microgram per square centimeter per week
 n.d.= not detected
 Detection Limit = 0.1 μg/cm²/week

Client's Requirement:

Non-body piercing article - 0.5 μg/cm²/week;
Body piercing article - 0.2 μg/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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