



Test Report

No. SHSL1609266974TX

Date: Sep 04, 2016

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ZHEJIANG SAS ZIPPER CO.,LTD
NO.456, YANJINGGANG ROAD, XIUZHOU DISTRICT, JIAXING, ZHEJIANG, CHINA

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

Sample Description : (A) 5# metal zipper
(B) 3# metal zipper
(C) 5# nylon zipper
(D) 3# nylon zipper
(E) 5# plastic zipper

Buyer : Desigual

Test Performed : Selected test(s) as requested by applicant against client's performance standard and special testing selection plan.

* * * * *

Sample Receiving Date : Aug 19, 2016

Testing Period : Aug 25, 2016- Sep 04, 2016

Test Result : Please refer to the next page(s) for details

Overall Conclusion : **Pass**



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Test Results : Please refer to the next page(s).

Component List / List of Materials

Sample	Sequence No.	Description	Color	Composition
A	1	zipper tape	beige	
	2	head	gold	metal
	3	slider	gold	metal
	4	puller	gold	metal
	5	top stop	gold	metal
	6	bottom stop	gold	metal
	7	teeth	gold	metal
B	8	zipper	beige/ gold	metal
C	9	zipper tape	beige	
	10	head	beige	metal
	11	slider	beige	metal
	11-1	coating		
	11-2	substrate		
	12	puller	beige	metal
	12-1	coating		
	12-2	substrate		
	13	top stop	beige	plastic
	14	pin	beige	plastic
D	15	box	beige	plastic
	16	teeth	beige	plastic
	17	zipper	beige	plastic
	18	zipper tape	beige	
E	19	head	beige	metal
	20	slider	beige	metal
	20-1	coating		
	20-2	substrate		
	21	puller	beige	metal
	21-1	coating		
	21-2	substrate		
	22	top stop	beige	plastic
	23	pin	beige	plastic
	24	box	beige	plastic
	25	teeth	beige	plastic



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Test Sample Identification

Test	Material No.	Result	Remark
Colour Fastness To Washing	A,C,E	Pass	
Colour Fastness To Drycleaning	A,C,E	Pass	
Colour Fastness To Water	A,C,E	Pass	
Colour Fastness To Perspiration	A,C,E	Pass	
Colour Fastness To Rubbing	A,C,E	Pass	
Colour Fastness To Chlorinated Pool Water	A,C,E	Pass	
Colour Fastness To Sea water	A,C,E	Pass	
Appearance After Washing	A,C,E	Pass	
Appearance After Drycleaning	A,C,E	Pass	
Sharp Points/ Sharp Edges	A,C,E	Pass	
Small Parts	A,C,E	Pass	
Durability Of Zipper	A,B,C,D,E	Pass	
pH Value	1,9,18	Pass	
Free Formaldehyde Content	1+9+18	Pass	
AZO Dye Analysis	1+9+18	Pass	
Lead In Coating	11-1+12-1,20-1+21-1	Pass	
Lead In Substrate	3+4+5,6+7+11-2,12-2+20-2+21-2,13+14+15,16+22+23,24+25	Pass	
Total Cadmium Content	3+4+5,6+7+11-2,12-2+20-2+21-2,13+14+15,16+22+23,24+25,11-1+12-1,20-1+21-1	Pass	
Chlorinated Phenols	1+9+18	Pass	0.03 mg/kg
Carcinogen Dyes	1+9+18	Pass	
Organic tin compounds	11,12,20,21,1+9+18,3+4+5,6+7,13+14+15,16+22+23,24+25	Pass	
Phthalates	13+14+15,16+22+23,24+25	Pass	
Allergenic Disperse Dyes	1+9+18	Pass	
Nickel Spot Test	2,10,19	Pass	

Remarks : Pass = Meets client's requirement
 Fail = Below client's requirement
 Inconclusive=Pass/Fail cannot be commented



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Note: Conclusions on are based on the test result from the actual sampling of the received sample(s).

The composite sampling method is based on the client's special request and is a modification from the testing standard.

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

Seven Zhang
Account Executive



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Test Results:

Requirement

Colour Fastness To Washing

(ISO 105-C06:2010; Test No. A2S, Machine wash at 40 °C with 4g/l 'ECE(B)' detergent and 1g/l Sodium perborate solution with 10 steel balls.)

	(A)	(C)	(E)	
Change in shade	4-5	4-5	4-5	Min. 4
Staining on multi-fiber stripe				Min. 4
Acetate	4-5	4-5	4-5	
Cotton	4-5	4-5	4-5	
Nylon	4-5	4-5	4-5	
Polyester	4-5	4-5	4-5	
Acrylic	4-5	4-5	4-5	
Wool	4-5	4-5	4-5	

Remark: Grey Scale rating is based on the 5-step scale of 1 to 5, where 1 is bad and 5 is good

Colour Fastness To Drycleaning

(ISO 105-D01:2010)

	(A)	(C)	(E)	
Change in shade	4-5	4-5	4-5	Min.4
Staining on multi-fiber stripe				Min.4
Acetate	4-5	4-5	4-5	
Cotton	4-5	4-5	4-5	
Nylon	4-5	4-5	4-5	
Polyester	4-5	4-5	4-5	
Acrylic	4-5	4-5	4-5	
Wool	4-5	4-5	4-5	

Remark: 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

Colour Fastness To Water
(GB/T 5713-2013)

	(A)	
Color Change	4-5	Min.3
Color Staining		Min.3
Polyester	4-5	
Wool	4-5	
	(C) zipper teeth	
Color Change	4-5	Min.3
Color Staining		Min.3
Nylon	4-5	
Wool	4-5	
	(C) zipper tape	
Color Change	4-5	Min.3
Color Staining		Min.3
Polyester	4-5	
Wool	4-5	
	(E)	
Color Change	4-5	Min.3
Color Staining		Min.3
Polyester	4-5	
Wool	4-5	

Remark: 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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Colour Fastness To Perspiration
(GB/T 3922-2013)

Requirement

Acid

	<u>(A)</u>	
Color Change	4-5	Min.3
Color Staining		Min.3
Polyester	3-4	
Wool	3	

Alkaline

	<u>(A)</u>	
Color Change	4-5	Min.3
Color Staining		Min.3
Polyester	4-5	
Wool	4	

Acid

	<u>(C) zipper teeth</u>	
Color Change	4-5	Min.3
Color Staining		Min.3
Nylon	4-5	
Wool	4-5	

Alkaline

	<u>(C) zipper teeth</u>	
Color Change	4-5	Min.3
Color Staining		Min.3
Nylon	4-5	
Wool	4-5	

Acid

	<u>(C) zipper tape</u>	
Color Change	4-5	Min.3
Color Staining		Min.3
Polyester	4-5	
Wool	4-5	

Alkaline

	<u>(C) zipper tape</u>	
Color Change	4-5	Min.3
Color Staining		Min.3
Polyester	4-5	
Wool	4-5	



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Requirement

Colour Fastness To Perspiration
(GB/T 3922-2013)

Acid

	<u>(E)</u>	
Color Change	4-5	Min.3
Color Staining		Min.3
Polyester	4-5	
Wool	4-5	

Alkaline

	<u>(E)</u>	
Color Change	4-5	Min.3
Color Staining		Min.3
Polyester	4-5	
Wool	4-5	

Remark: Grey Scale rating is based on the 5-step scale of 1 to 5, where 1 is bad and 5 is good

Colour Fastness To Rubbing

(ISO 105-X12:2001; Size of rubbing finger: ; 16mm diameter.)

	<u>(A)</u>	<u>(C)</u>	<u>(E)</u>	
Dry staining	4	4-5	4-5	Min. 3-4
Wet staining	4-5	4-5	4-5	Min. 3

Remark: Grey Scale rating is based on the 5-step scale of 1 to 5, where 1 is bad and 5 is good

Colour Fastness To Chlorinated Pool Water

(ISO 105-E03:2010; 50 mg/l available chlorine)

	<u>(A)</u>	<u>(C)</u>	<u>(E)</u>	
Change in shade	4 (zipper teeth) 4-5 (zipper tape)	4-5	4-5	Min.3

Remark: 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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Colour Fastness To Sea water

(ISO 105-E02:2013; test specimen in vertical position.)

	(A)	(C)	(E)	
Change in shade	4-5	4-5	4-5	Min.3
Staining on multi-fiber stripe				Min.3
Acetate	4-5	4-5	4-5	
Cotton	4-5	4-5	4-5	
Nylon	4-5	4-5	4-5	
Polyester	4-5	4-5	4-5	
Acrylic	4-5	4-5	4-5	
Wool	4-5	4-5	4-5	

Remark: Grey Scale rating is based on the 5-step scale of 1 to 5, where 1 is bad and 5 is good

Appearance After Washing

(In House Method; SL-TM-DIM-001; ISO 6330: 2012; Washing program No. 4N; Using horizontal axis, front-loading type machine: Machine wash at 40°C, with 2kg total dry mass (type III (100% polyester) ballast+ specimen) and 77%'ECE' (A)+ 3%'TAED'+ 20%'Sodium Perborate, line dry)

(A,E)

After 3 wash(es)

Observation on washed sample

1. Colour change : Grade 4-5
2. Zipper : Runs freely in both directions

General appearance of washed samples (A, E) are satisfactory.

(C)

After 3 wash(es)

Observation on washed sample

1. Colour change : Grade 4-5
2. Zipper : Slightly removal of coating was found on zipper puller

General appearance of washed sample is satisfactory.

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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Appearance After Drycleaning

(Commercial drycleaning; normal materials)

After 1 dryclean

Observation on washed sample

- 1. Colour change : Grade 4-5
- 2. Zipper : Runs freely in both directions

General appearance of washed samples (A, C, E) are satisfactory.

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

Detection of Sharp Points, Sharp Edges or Small Parts

(As specified in Title 16, Code of Federal Regulations, Chapter II – Consumer Products Safety Commission of U.S.A.)

(A)&(C)&(E)

	Sharp Point (CFR 1500.48)	Sharp Edge (CFR 1500.49)	Small Part (CFR 1501)
As Received	Pass	Pass	Pass
After Torque Test (Sec.CFR 1500. 53e)	Pass	Pass	Pass
After Tension Test (Sec.CFR 1500. 53f)	Pass	Pass	Pass

Remarks:

- 1. Refer to below for torque test and tension test performance
- 2. Small part is applicable for children under 3 years of age



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Torque Test

(16 CFR Part 1500.53e)

Requirement

Zipper shall not detach under a torque force of 4.0 in-lbf. held for a duration of 10 sec.

<u>Sample (A)</u>	<u>Torque Force (in-lb)</u>	
	<u>1</u>	<u>2</u>
Clockwise	DND	DND
Counter clockwise	DND	DND

<u>Sample (C)</u>	<u>Torque Force (in-lb)</u>
	<u>3</u>
Clockwise	DND
Counter clockwise	DND

<u>Sample (E)</u>	<u>Torque Force (in-lb)</u>
	<u>4</u>
Clockwise	DND
Counter clockwise	DND

Remark

DND: Did not detach at a torque force of 4.0 in-lb held for the full 10 seconds.



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Tension Test

(16 CFR Part 1500.53 f)

Requirement:

Components shall not detach under a force of 15.0 lbf held for duration of 10 seconds.

Sample (A)	1	2
Result	DND	DND

Sample (C)	3
Result	DND

Sample (E)	4
Result	DND

Remark

- DND: Did not detach at 15.0 lbf level, held for the full 10 seconds.
 1-2: Zipper from up to down
 3: Zipper
 4: Zipper

Durability Of Zipper

(BS 3084:2006)

Reciprocating Test

(Minimum Cycles without shape distortion)

Cycles	(A) >500	(B) >500	Exceeds 500
Cycles	(C) >500	(D) >500	(E) >500 Exceeds 500

Remarks : It is noted that a specified sampling plan is laid down per BS 3084:2006.
 The above test results are based on 1 submitted sample(s) provided by the applicant



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pH Value

Test Method: According to BS EN ISO 3071:2006; 0.1mol/l KCL extraction.

		<u>Result</u>	
pH value	$\frac{1}{6.6}$	$\frac{9}{6.6}$	$\frac{18}{6.6}$
Conclusion	Pass	Pass	Pass

Note: pH value of extraction medium 6.0
 Temperature of the extraction solution 14.5°C

Remark: Client Requirement: 4.0-7.5

Free Formaldehyde Content

Test Method: According to ISO 14184-1:2011 – Textile – Determination of Formaldehyde Part 1: Free and hydrolyzed formaldehyde (water extraction method). Analysis was performed by UV/VIS spectrophotometer.

	<u>Result</u> <u>(mg/kg)</u>
Formaldehyde	1+9+18 ND
Conclusion	Pass

Note: ND = Not Detected
 1ppm = 1 mg/kg
 Detection limit = 16 mg/kg

Remark: Client's Requirement: Max.20mg/kg for baby&kids&label;
Max.75mg/kg for others



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Azo Dyes

Test Method:

All Textile: According to EN 14362-1:2012 – Analysis was conducted with GC-MS/HPLC-DAD.

Amines	Result	
	CAS No.	(mg/kg)
		1+9+18
4-Aminobiphenyl	92-67-1	ND
Benzidine	92-87-5	ND
4-Chlor-o-toluidine	95-69-2	ND
2-Naphthylamine	91-59-8	ND
o-Aminoazotoluene	97-56-3	ND
5-nitro-o-toluidine / 2-Amino-4-nitrotoluene	99-55-8	ND
4-Chloroaniline	106-47-8	ND
4-methoxy-m-phenylenediamine / 2,4-Diaminoanisole	615-05-4	ND
4,4'-Diaminodiphenylmethane	101-77-9	ND
3,3'-Dichlorobenzidine	91-94-1	ND
3,3'-Dimethoxybenzidine	119-90-4	ND
3,3'-Dimethylbenzidine	119-93-7	ND
4,4'-methylenedi-o-toluidine / 3,3'-Dimethyl-4,4'-diaminodiphenylmethane	838-88-0	ND
p-Cresidine	120-71-8	ND
4,4'-Methylene-bis-(2-chloroaniline)	101-14-4	ND
4,4'-Oxydianiline	101-80-4	ND
4,4'-Thiodianiline	139-65-1	ND
o-Toluidine	95-53-4	ND
4-methyl-m-phenylenediamine / 2,4-Toluyldiamine	95-80-7	ND
2,4,5-Trimethylaniline	137-17-7	ND
4-aminoazobenzene	60-09-3	ND
O-Anisidine	90-04-0	ND
2,6 – Xylidine	87-62-7	ND
2,4 – Xylidine	95-68-1	ND
Conclusion		Pass

Note: ND = Not Detected(<MDL)
MDL(Method Detection Limit)= 5 mg/kg (for individual compound)

Client

Requirement: ND (for individual compound)



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Remark: Test was conducted on composite of random parts of the item as per client's request and the test result is the overall result.

Whenever 4-aminodiphenyl (CAS number 92-67-1), 2-naphylamine (CAS number 91-59-8) and 4-methoxy-m-phenylene-diamine (CAS number 615-05-4) is found, the use of banned azo colorants cannot be reliably ascertained without additional information, e.g. the chemical structure of the colorants used.

In case polyurethane materials are used, e.g. PU foams and coatings and in prints, it cannot be ruled out that certain amines, e.g. 4,4'-methylene-dianiline (MDA, CAS number 101-77-9) and 2,4-toluylen-diamine (TDA, CAS number 95-80-7) are released from the PU component and not from a banned azo colorant.

In case of pigment prints care has to be taken that 4,4'-methylene-dianiline (MDA, CAS number 101-77-9) is not released from a source of banned azo colorants but from e.g. a chemical fixing agent.

The EN 14362-1:2012 method will enable further cleavage of 4-aminoazobenzene to non-forbidden amines: aniline and 1,4-phenylenediamine. If aniline and/or 1,4-phenylenediamine is not found (i.e. 5mg/kg) by mentioned test method, test result for 4-aminoazobenzene (CAS no. 60-09-3) is considered as "not detected" (i.e. <5mg/kg). Otherwise, the test method of EN 14362-3:2012 will be employed to verify the presence of 4-aminoazobenzene.

Material qualitative list

Table with 2 columns: Fiber Type* and Material No. Rows include Type A, Type B, and Type C with corresponding material numbers.

* This fiber type identification is for the selection of azo dye testing procedure (i.e. EN 14362-1/3:2012).

Note:

- Type A = Textile contains natural fibers only and/or regenerated fibers exclude the group of acetate.
Type B = Textile contains polyester fibers only
Type C = Textile contains man-made fibers and/or man-made blended fibers (except polyester fibers)



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Lead in paint/similar surface coating material (CPSIA section 101(f))

Test Method : CPSC Test Method: CPSC-CH-E1003-09.1` Standard Operation Procedure for Determining Lead (Pb) in Paint and Other Similar Surface Coatings`

Test Item(s)	Permissible Limit	Unit	MDL	11-1+12-1	20-1+21-1
Lead (Pb)	90	ppm	20	ND	ND
Conclusion				PASS	PASS

Notes :

Composite test has been performed and the result is calculated using the minimum sample weight.

CPSIA section 101(a)(2) - Lead in accessible substrate materials (including Children's Metal Jewelry)

Test Method : CPSC Test Method: CPSC-CH-E1001-08.3 'Standard Operating Procedure for Determining Total Lead (Pb) in Children's Metal Products (Including Children's Metal Jewelry)'

Test Item(s)	Permissible Limit**	Unit	MDL	3+4+5	6+7+11-2
Lead (Pb)	100	ppm	20	71	73
Conclusion				PASS	PASS

Test Item(s)	Permissible Limit**	Unit	MDL	12-2+20-2+21-2
Lead (Pb)	100	ppm	20	71
Conclusion				PASS

Notes :

(1) ** Limit applies to a children's product manufactured after 14 August 2011 (Public Law 112-28 (HR 2715, 112th Congress) amending CPSIA)

(2) Composite test has been performed and the result is calculated using the minimum sample weight.



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Test Method : CPSC Test Method: CPSC-CH-E1002-08.3 'Standard Operation Procedure for Determining Total Lead (Pb) in Non-Metal Children Product'

Test Item(s)	Permissible Limit**	Unit	MDL	13+14+15	16+22+23	24+25
Lead (Pb)	100	ppm	20	ND	ND	ND
Conclusion				PASS	PASS	PASS

Notes :

- (1) ** Limit applies to a children's product manufactured after 14 August 2011 (Public Law 112-28 (HR 2715, 112th Congress) amending CPSIA)
- (2) Composite test has been performed and the result is calculated using the minimum sample weight.

Total Cadmium content

Test Method: Metal materials: With reference to CPSC-CH-E1001-08.3. Analysis was performed by ICP/AAS.

Test Item(s)	3+4+5	6+7+11-2	12-2+20-2+21-2
Cadmium(Cd)	ND	ND	14 mg/kg
Conclusion	PASS	PASS	PASS

Notes :

Method Detection Limit = 5mg/kg
ND = Not Detected(< MDL)

The client's requirement:

Clothing – Baby: 50 mg/kg; Others: 100 mg/kg Accessories – 100 mg/kg

Composite test has been performed and the result is calculated using the minimum sample weight.



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Total Cadmium content

Test Method: Non-metallic materials: With reference to CPSC-CH-E1002-08.3. Analysis was performed by ICP/AAS.

<u>Test Item(s)</u>	13+14+15	16+22+23	24+25
Cadmium(Cd)	ND	ND	ND
Conclusion	PASS	PASS	PASS

Notes :

Method Detection Limit = 5mg/kg

ND = Not Detected(< MDL)

The client's requirement:

Clothing – Baby: 50 mg/kg; Others: 100 mg/kg

Accessories – 100 mg/kg

Composite test has been performed and the result is calculated using the minimum sample weight.

Total Cadmium content

Test Method: Surface coating: With reference to CPSC-CH-E1003-09.1- acid digestion. Analysis was performed with ICP/AAS.

<u>Test Item(s)</u>	11-1+12-1	20-1+21-1
Cadmium(Cd)	ND	ND
Conclusion	PASS	PASS

Notes :

Method Detection Limit = 5mg/kg

ND = Not Detected(< MDL)

The client's requirement:

Clothing – Baby: 50 mg/kg; Others: 100 mg/kg

Accessories – 100 mg/kg

Composite test has been performed and the result is calculated using the minimum sample weight.



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t (86-21) 61402666

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Pentachlorophenol (PCP), Tetrachlorophenol (TeCP) and Trichlorophenol(TCP)

Test Method: Modified § 64 LFGB, BVL, B 82.02.8-2001 with alkaline digestion , analysis was proformed by GC-ECD or GC-MS.

Test Item(s)	1+9+18
Pentachlorophenol (PCP)	0.03 mg/kg#
2,3,4,5-Tetrachlorophenol (2,3,4,5 - TeCP)	ND
2,3,5,6-Tetrachlorophenol (2,3,5,6 - TeCP)	ND
2,3,4,6-Tetrachlorophenol (2,3,4,6 - TeCP)	ND
2,4,6-Trichlorophenol (2,4,6 – TriCP)	ND
2,3,6-Trichlorophenol (2,3,6 – TriCP)	ND
2,3,5-Trichlorophenol (2,3,5 – TriCP)	ND
2,4,5-Trichlorophenol (2,4,5 – TriCP)	ND
2,3,4-Trichlorophenol (2,3,4 – TriCP)	ND
3,4,5-Trichlorophenol (3,4, 5 – TriCP)	ND
Conclusion	PASS

Notes :

Method Detection Limit = 0.05mg/kg
ND = Not Detected(< MDL)

The client's requirement: Baby-0.05mg/kg(for individual compound); Others-0.5mg/kg(for individual compound)

= Exceed the limit



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t (86-21) 61402666
t (86-21) 61402666

f (86-21) 64958763
f (86-21) 64958763

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Carcinogenic Dyes

Test Method: With reference to DIN 54231:2005, analysis was performed by HPLC-DAD-MSD.

<u>Test Item(s)</u>	<u>CAS NO.</u>	1+9+18
Acid Red 26 (CI No: 16150)	3761-53-3	ND
Basic Red 9 (CI No: 42500)	569-61-9	ND
Direct Black 38 (CI No: 30235)	1937-37-7	ND
Direct Blue 6 (CI No: 22610)	2602-46-2	ND
Direct Red 28 (CI No: 22120)	573-58-0	ND
Basic Violet 14 (CI No: 42510)	632-99-5	ND
Disperse Orange 11 (CI No: 60700)	82-28-0	ND
Disperse Blue 1 (CI No: 64500)	2475-45-8	ND
Disperse Yellow 3 (CI No: 11855)	2832-40-8	ND
Disperse Yellow 23	6250-23-3	ND
Disperse Orange 149	85136-74-9	ND
Conclusion		PASS

Notes :

MDL(Method Detection Limit)=15mg/kg
 ND = Not Detected(< MDL)
The client's requirement: Not Detected



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 Testing Center

3rd Building, No.889, Yishan Road, Xuhui District Shanghai, China 200233 t (86-21) 61402666 f (86-21) 64958763 www.sgsgroup.com.cn
 中国·上海·徐汇区宜山路889号3号楼 邮编: 200233 t (86-21) 61402666 f (86-21) 64958763 e sgs.china@sgs.com

Organic-tin compounds

Test Method: With reference to DIN EN ISO 17353:2005 – Solvent extraction. Analysis was performed by GC-MS.

Test Item(s)	11	12	20
Dibutyl tin (DBT)	ND	ND	ND
Tributyl tin (TBT)	ND	ND	ND
Triphenyl tin (TPhT)	ND	ND	ND
Diocetyl tin (DOT)	ND	ND	ND
Conclusion	PASS	PASS	PASS

Test Item(s)	21	1+9+18	3+4+5
Dibutyl tin (DBT)	ND	ND	ND
Tributyl tin (TBT)	ND	ND	ND
Triphenyl tin (TPhT)	ND	ND	ND
Diocetyl tin (DOT)	ND	ND	ND
Conclusion	PASS	PASS	PASS

Test Item(s)	6+7	13+14+15	16+22+23
Dibutyl tin (DBT)	ND	ND	ND
Tributyl tin (TBT)	ND	ND	ND
Triphenyl tin (TPhT)	ND	ND	ND
Diocetyl tin (DOT)	ND	ND	ND
Conclusion	PASS	PASS	PASS

Test Item(s)	24+25
Dibutyl tin (DBT)	ND
Tributyl tin (TBT)	ND
Triphenyl tin (TPhT)	ND
Diocetyl tin (DOT)	ND
Conclusion	PASS

Notes :

MDL(Method Detection Limit)=0.02mg/kg (for individual compound)

ND = Not Detected(< MDL)

The client's requirement:

TBT/TPhT: 0.5 mg/kg; DBT/DOT: 1.0 mg/kg



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Testing Center

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中国·上海·徐汇区宜山路889号3号楼 邮编: 200233

t (86-21) 61402666 f (86-21) 64958763
t (86-21) 61402666 f (86-21) 64958763

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Phthalates

Test Method : With reference to CPSC-CH-C1001-09.3, analysis was performed by GC-MS.

<u>Test Item(s)</u>	<u>CAS NO.</u>	13+14+15	16+22+23	24+25
Dibutyl Phthalate (DBP)	84-74-2	ND	ND	ND
Benzylbutyl Phthalate (BBP)	85-68-7	ND	ND	ND
Bis-(2-ethylhexyl) Phthalate (DEHP)	117-81-7	ND	ND	ND
Diisononyl Phthalate (DINP)	28553-12-0 /68515-48-0	ND	ND	ND
Di-n-octyl Phthalate (DNOP)	117-84-0	ND	ND	ND
DiisoSeyl Phthalate (DIDP)	26761-40-0 /68515-49-1	ND	ND	ND
Total_6(DBP+BBP+DIDP+DNOP+DEHP+DINP)		ND	ND	ND
Conclusion		PASS	PASS	PASS

Notes :

MDL(Method Detection Limit):50 mg/kg (for individual compound)

ND = Not Detected(< MDL)

The client's requirement: 1000mg/kg (Sum)



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Disperse Dyes

Test Method : With reference to DIN 54231:2005, analysis was performed by HPLC-DAD-MSD.

<u>Test Item(s)</u>	<u>CAS NO.</u>	1+9+18
Disperse Blue 1 (CI No: 64500)	2475-45-8	ND
Disperse Blue 3 (CI No: 61505)	2475-46-9	ND
Disperse Blue 7 (CI No: 62500)	3179-90-6	ND
Disperse Blue 26 (CI No: 63305)	3860-63-7	ND
Disperse Blue 35A (CI No: 42500)	56524-77-7	ND
Disperse Blue 35B (CI No: 42500)	56524-76-6	ND
Disperse Blue 102	69766-79-6/ 12222-97-8	ND
Disperse Blue 106	68516-81-4/ 12223-01-7	ND
Disperse Blue 124	61951-51-7	ND
Disperse Brown 1	23355-64-8	ND
Disperse Orange 1 (CI No: 11080)	2581-69-3	ND
Disperse Orange 3 (CI No: 11005)	730-40-5	ND
Disperse Orange 37/76(CI No: 11132)	13301-61-6	ND
Disperse Red 1 (CI No: 11110)	2872-52-8	ND
Disperse Red 11 (CI No: 62016)	2872-48-2	ND
Disperse Red 17 (CI No: 11210)	3179-89-3	ND
Disperse Yellow 1 (CI No: 10345)	119-15-3	ND
Disperse Yellow 3 (CI No: 11855)	2832-40-8	ND



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3rd Building, No.889, Yishan Road, Xuhui District Shanghai, China 200233 t (86-21) 61402666 f (86-21) 64958763 www.sgs.com.cn
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Disperse Yellow 9 (CI No: 10375)	6373-73-5	ND	
Disperse Yellow 39	12236-29-2	ND	
Disperse Yellow 49	54824-37-2	ND	
Conclusion	PASS		

Notes :

MDL(Method Detection Limit)=15mg/kg
 ND = Not Detected(< MDL)
The client's requirement: 30mg/kg

Nickel Spot Test

Test Method : With reference to PD CR 12471:2002.

<u>Test Item(s)</u>	2
Ni release	Negative
 <u>Test Item(s)</u>	 10
Ni release	Negative
 <u>Test Item(s)</u>	 19
Ni release	Negative

Notes :

- (1) Positive = Present of nickel release (likely to be >0.5mg/cm²/week); Quantitative Test is strongly recommended to determine the exact Nickel release content
 - (2) Negative = Absence of nickel release;
- Desigual's Requirement: Negative**

Conclusions on pass/fail are based on the test result from the actual sampling of the received sample(s).

The composite sampling method is based on the client's special request and is a modification from the testing standard. For 2-composite mix with results exceeding one half of the relevant requirements or 3-composite mix with results exceeding one third of the relevant requirements, the composite sample may have the possibility of one or more components that can lead to a failure result, it is recommended to test on individual basis.



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Laboratory Summary Information for Certificate of Compliance (COC)

COC NUMBER:

SHSL1609266974TX

DATE OF ISSUE:

Sep 04, 2016

Desigual hereby confirm based on the test results, in this report, that the sample or components described below were tested and comply with the following rules, bans, regulations and standards under the CPSIA (Consumer Product Safety Improvement Act) of any other Act enforced by the CPSC and checked on the list below:

Table with 2 columns: Description Product / Components, Color, Style Number. Includes details for metal and nylon zippers.

CPSC SAFETY REGULATION CITATIONS

- Wearing Apparel Flammability US CPSC 16 CFR 1610
Flammability Standard for Children's Sleepwear 16 CFR 1615 & 1616
Small Parts 16 C.F.R Part 1501
Sharp Edge & Sharp Point: 16 CFR Part 1500.48 & 1500.49
Lead Paint Ban 16 C.F.R. 1303
Lead in substrate CPSIA Section 101
Federal Hazardous Substances Act 15 U.S.C 1261
Phthalates CPSIA Section 108
Flammability of Vinyl Plastic Film Used In Clothing 16 CFR 1611
Flammability of Carpets and Rugs 16 CF 1630/1631
Flammability of Mattresses and Mattress Pads 16 CFR 1632/1633

IMPORTER'S INFORMATION

Table with 2 columns: Company Name, Full Mailing Address, Email, Telephone number (including country code). Includes Desigual Spain contact info.



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All products listed above have passed testing as part of a reasonable testing program and meet the United States federal requirements for General Conformity in Section 102 of the Consumer Product Safety Improvement Act of 2008.

Issued by:

MANUFACTURER'S INFORMATION	
Company Name	ZHEJIANG SAS ZIPPER CO.,LTD
Full Mailing Address	NO.456, YANJINGGANG ROAD, XIUZHOU DISTRICT, JIAXING, ZHEJIANG, CHINA
Email	Yqhy528@126.com
Telephone number (including country code)	/
Date of Manufacturer: Month:Year:(Date Of Final Production)	
City and Country / Administrative Region of Manufacturer:	

TESTING LABORATORY INFORMATION	
Place of Testing Laboratory	Shanghai China
Name of Testing Laboratory	SGS-CSTC Standards Technical Services (Shanghai) Co., Limited
Address of Testing Laboratory	4/F, the 4 th Building, No. 889 Yishan Road, Shanghai China, P.C 200233
Contact Person of Testing Laboratory	Carol Chen
Date of Testing	09/4/2016 8:49 AM
Test Report Number	SHSL1609266974TX

The information on this sheet is ONLY applicable for the item tested in this report.

End of Report



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t (86-21) 61402666
t (86-21) 61402666

f (86-21) 64958763
f (86-21) 64958763

www.sgs.com
sgs.china@sgs.com

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