



TEST REPORT

LAB NO.: (6616)305-0198
FORM NO.: /
DATE IN: Oct. 31, 2016
MODIFIED DATE IN: /
DATE OUT: Nov. 08, 2016
NO. OF WORKING DAYS: 7
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OVERALL RATING	
PASS	<u> X </u>
FAIL	<u> </u>
DATA	<u> </u>

Vendor:	ZHEJIANG SAS ZIPPER CO., LTD	Agent:	/
Fabric Supplier/Mill	/	Factory/Manufacturer:	/
P.O. No.:	518-053	Style No.:	/
Sample Description:	ONE KIND OF ZIPPER SAMPLE (NAME OF ARTICLE: NO.3 METAL LIGHT GOLD CLOSE END ZIPPER, BRAND: ZARA ADULT, ZARA MEN, ZARA WOMEN, CHILDREN)	Style Description:	/
Color:	NAVY	Country of Origin:	/
Claimed Fabric Weight:	/	Claimed Fabric Count:	/
Yarn Size:	/	Submitted Size:	/
Size Range:	/	FPU No.:	/
GPU No.:	/	End Use:	/

Product Category:	/
Test Requested:	/
Previous Report No.:	/

Submitted Fiber Content:	/
Actual Fiber Content:	/
Suggested Fiber Content:	/
Submitted Care Instruction(s):	/
Client Expected Care Instruction:	/
Suggested Care Instruction(s):	/

C/N 9 SME-INDI SH/JOKER

TEST PROPERTY	PASS	FAIL	DATA	COMMENTS
CPSIA TOTAL LEAD CONTENT IN SUBSTRATES	X			
ZIPPER STRENGTH – RESISTANCE TO TWIST OF PULL AND SLIDER			X	
TOTAL CADMIUM CONTENT	X			
PH VALUE	X			
FREE AND HYDROLYZED FORMALDEHYDE IN TEXTILES	X			
NICKEL SPOT TEST			X	
COLOURFASTNESS TO WASHING	X			
COLOURFASTNESS TO WATER	X			
AZO DYES CONTENT	X			

Remark: BVCPS (Shanghai) contact information for this report

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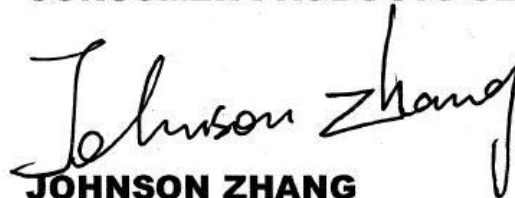
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**BUREAU VERITAS
CONSUMER PRODUCTS SERVICES (SHANGHAI)**



**JOHNSON ZHANG
OPERATION MANAGER**

TOTAL LEAD CONTENT

Tested Component List/List of Material

Sample No.	Material No.	Component Description	Material
A	1	Golden meta(puller) (w/o Coating)	Metal
A	2	Golden metal(slider) (w/o Coating)	Metal
A	3	Golden metal(top stopper)	Metal
A	4	Golden metal(teeth)	Metal
A	5	Golden metal(bottom stopper)	Metal

TEST RESULTS

TEST PROPERTY

REQUIREMENTS

CPSIA TOTAL LEAD CONTENT IN SUBSTRATES (EPA 3051 MODIFIED & EPA 3052 MODIFIED (Others) / CPSC-CH-E1001-08 (Metal))
A1+A2+A3+A4+A5
(PPM) 65.3PPM

MAX 90.0 PPM

ZIPPER STRENGTH - RESISTANCE TO TWIST OF PULL AND SLIDER (EN 71-1: 2005 + A9: 2009)
(IN-LBS.) PASSED WITH 4.0 INCH - LBS FOR 10 SEC.
AND ACTUAL STRENGTH AT 6.4 INCH - LBS
(ANTICLOCKWISE)

Total Cadmium Content – Regulation (EC) No. 1907/20 06 Annex XVII Item No. 23

Parameter	Unit	Result						Maximum Allowable Limit
		1	2	3	4	5	6	
Total Cadmium (Cd)	Mg/kg	33.1	1.3	1.7	2.9	<1	<1	75PPM

- Test Item 1: Golden coating on metal
- Test Item 2: Golden meta(puller) (w/o Coating)
- Test Item 3: Golden metal(slider) (w/o Coating)
- Test Item 4: Golden metal(top stopper)
- Test Item 5: Golden metal(teeth)
- Test Item 6: Golden metal(bottom stopper)

Note:

1. mg/kg = milligram per kilogram
2. "<" = Less than

Method:

1. Plastic - EN 1122: 2001, Method B
2. Paint - Sample was digested with nitric acid, then the cadmium content was analyzed by Atomic Absorption Spectrophotometer.

<u>TEST PROPERTY</u>	<u>TEST RESULTS</u>	<u>REQUIREMENTS</u>
<u>FORMALDEHYDE CONTENT IN TEXTILES: ISO 14184-1: 2011</u> (ISO 14184-1: 2011, GENERAL)		
(ppm)	ND	NO DETECTION
REMARK: DETECTION LIMIT = 5 mg/kg		
<u>pH</u> (GB/T 7573)		
	7.0	4.0 TO 7.5
<u>NICKEL SPOT TEST</u> (PD CR 12471: 2002)		
	ZIPPER PULLER: NEGATIVE	/
	ZIPPER TOP: NEGATIVE	/
	ZIPPER CHAIN: NEGATIVE	/
	Zipper BOTTOM: NEGATIVE	/
	ZIPPER SLIDER: NEGATIVE	/

<u>TEST PROPERTY</u>	<u>TEST RESULTS</u>	<u>REQUIREMENTS</u>
<u>COLOURFASTNESS TO WASHING</u> (ISO 105-C06:2010, DW, TEST NO: A2S , 30-MIN MECHANICAL WASH AT 40 DEGREE CELSIUS IN 0.4% ECE DETERGENT AND 0.1% SODIUM PERBORATE SOLUTION WITH 10 STEEL BALLS)		
COLOUR CHANGE	4-5	MIN. GRADE 4
CROSS STAINING	4-5	/
COLOUR STAIN ON ACETATE	4-5	MIN. GRADE 4
COTTON	5	MIN. GRADE 4
NYLON	4	MIN. GRADE 4
POLYESTER	4-5	MIN. GRADE 4
ACRYLIC	5	MIN. GRADE 4
WOOL	5	MIN. GRADE 4
<u>COLOURFASTNESS TO WATER</u> (GB/T 5713: 2013)		
COLOUR CHANGE	4-5	MIN. GRADE 3-4
COLOUR STAIN ON COTTON	5	MIN. GRADE 3-4
POLYESTER	5	MIN. GRADE 3-4
<u>COLOURFASTNESS RATING</u>		
GRADE 5	NEGLIGIBLE OR NO CHANGE OR STAINING	
GRADE 4	SLIGHTLY CHANGED OR STAINED	
GRADE 3	NOTICEABLY CHANGED OR STAINED	
GRADE 2	CONSIDERABLY CHANGED OR STAINED	
GRADE 1	MUCH CHANGED OR STAINED	

TEST RESULT

Azo Dyes Content (Analysis of Amines in Dyestuff)

Test Method I : EN 14362-1:2003
Test Method II : EN 14362-2:2003
Test Method III : ISO 17234-1: 2010
Test Method IV : §64 LFGB B 82.02-9:2006
 Quantification analysis by GC-MS and confirmation by LC-DAD.

Tested Item(s) : 1 Zipper Tape

Client's Limit:	20 mg/kg				
Tested Item(s)	Test Method	Result			Conclusion
		Detected Analyte(s)	Conc.	Unit	
1	II	ND	ND	mg/kg	PASS

Note:

ND = Not detected “>” = More than Conc. = Concentration
 mg/kg = milligram per kilogram
 Detection Limit (mg/kg): Each 5

Remark:

- *Azo colorants that are able to form p-aminoazobenzene, generate aniline and 1,4-phenylenediamine under the condition of this method. Aniline and 1,4-phenylenediamine are not detected under the condition of this method.
- The list of amines in azo dyestuff is summarized in table of Appendix.

APPENDIX

List of Amines in Azo Dyestuff:					
No.	Name of Analytes	CAS-No.	No.	Name of Analytes	CAS-No.
1	4-Aminodiphenyl	92-67-1	13	p-Chloroaniline	106-47-8
2	Benzidine	92-87-5	14	p-Cresidine	120-71-8
3	4-Chloro-o-Toluidine	95-69-2	15	4,4'-Methylene-bis -(2-chloraniline)	101-14-4
4	2-Naphthylamine	91-59-8	16	4,4'-Oxydianiline	101- 80-4
5	o-Aminoazotoluene	97-56-3	17	4,4'-Thiodianiline	139-65-1
6	2-Amino-4-nitrotoluene	99-55-8	18	2,4-Toluenediamine	95-80-7
7	2,4-Diaminoanisole	615-05-4	19	o-Toluidine	95-53-4
8	**4,4'-Diaminodiphenylmethane	101-77-9	20	2,4,5-Trimethylaniline	137-17-7
9	3,3'-Dichlorobenzidine	91-94-1	21	o-Anisidine	90-04-0
10	3,3'-Dimethoxybenzidine (o-Dianisidine)	119-90-4	22	*p-Aminoazobenzene (4-Amino-azobenzene)	60-09-3
11	3,3'-Dimethylbenzidine (o-Tolidine)	119-93-7	23	2,4-Xylidine	95-68-1
12	3,3'-Dimethyl-4,4'-diaminodiphenylmethane	838-88-0	24	2,6-Xylidine	87-62-7

EXHIBITS



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