

Test Report

No.: HKSL1301018593TX

Date: Feb 14, 2013

Page 1 of 7

FOREST INTERNATIONAL ZIPPER COMPANY LIMITED
UNIT 2, 5/F, HUNG TAT INDUSTRIAL BUILDING
43 HUNG TO RD.
KWUN TONG
KOWLOON
HONG KONG

The following sample was submitted and identified by the client as:

Overall Rating	
X	Pass
	Conditional Pass
	Fail

Bebe (Own Reference)			
Vendor Name :	Forest International Zipper Company Limited		
Sample Description :	One sample of #4.5 invisible zipper in sea blue for garment. (Adult)		
End Use :	Garment		
Color :	Sea blue	Supplier No. :	/
Style No. :	/	PO No. / Ref. No. :	/
Manufacturer :	/	Country of Origin :	/
Fibre Content :	/	Weight :	/
Fabric:	/	Construction:	/
		Count:	
Sample Receiving Date :	Jan 24, 2013	Test Performing Period :	Jan 28 - Feb 14, 2013
Applicant's Submitted Care Instruction : /			

Tested and residual samples returned to applicant

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Test Report

No.: HKSL1301018593TX

Date: Feb 14, 2013

Page 2 of 7

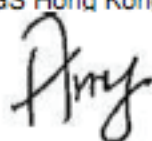
Tests	Pass	Conditional Pass	Fail	Remarks
Colour Fastness To Washing	X			
Colour Fastness To Crocking	X			
Zipper Strength (BS 3084:2006)	X			
Zipper Strength (ASTM D2061-2007)	X			
Lead in paint/similar surface coating material	X			
Lead in substrate	X			
Nickel Release	X			

Notes: Pass = Meets Bebe's performance standard.

Conditional Pass = Meets Bebe's performance standard with the condition that the recommended changes are made or with Bebe's approval.

Fail = Fails to meet Bebe's performance standard.

Signed for and on behalf of
SGS Hong Kong Ltd.



Chau Ho Yan, Amy
Senior Account Executive

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Test Report

No.: HKSL1301018593TX

Date: Feb 14, 2013

Page 3 of 7

Test Results :

Colour Fastness To Washing

(AATCC 61-2010 Test No. 2A, 45 min. Mechanical wash at 120 degree F in 0.15% 1993 AATCC Standard Reference detergent 'WOB' solution with 50 steel balls)

		<u>Requirement</u>
Change in shade	4.5	Min. 4.0
Staining on multifibre stripe		
Acetate	4.5	Min. 4.0
Cotton	4.5	
Nylon	4.0	
Polyester	4.5	
Acrylic	4.5	
Wool	4.5	

Colour Fastness To Crocking (AATCC 8-2007)

		<u>Requirement</u>
Dry staining	4.5	Min. 4.0
Wet staining	4.5	Min. 4.0

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

Zipper Strength (BS 3084:2006)

		<u>Requirement</u>
Test No. 5c	<u>Reciprocating Test</u>	
	Exceeds 500 cycles	Min. 500 cycles

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

Test Report

No.: HKSL1301018593TX

Date: Feb 14, 2013

Page 4 of 7

Zipper Strength (ASTM D2061-2007)

		Requirement
Chain Crosswise Strength Test		
(lb)	128.5 (Sewing thread breaks)	Min. 140 lb
Top Stop Holding Strength Test		
(lb)	21.2 (Slider pulled out)	Min. 15 lb
Resistance To Pull-off Of Slider Pull Test		
(lb)	45.7 (Puller pulled out)	Min. 25 lb
Slider Lock Holding, Stringer Separation Test		
(lb)	14.0 (Slider skipping)	Min. 5.5 lb
Resistance To Twist Of Pull and Slider Test		
Clockwise (lb.in)	2.0	Min. 1 lb.in
Counter Clockwise (lb.in)	2.2	
Bottom Stop Holding, Crosswise Test		
(lb)	30.2 9Stop broken)	Min. 25 lb
Bottom Stop Holding, Slider Test		
(lb)	33.1 (Puller pulled out)	Min. 25 lb
Bottom Stop Holding, Stringer Separation Test		
(lb)	25.4 (Stop broken)	Min. 25 lb

Remarks: It is noted that a specified sampling plan is laid down per ASTM D2061-2007.
The above test results are based on 12 submitted sample(s) provided by the applicant.

Test Report

No.: HKSL1301018593TX

Date: Feb 14, 2013

Page 5 of 7

Chemical Test:

Tested Component List / List of Materials

Sample	Material No.	Component Description	Material	Colour	Remark
/	1	Sea blue coated metal zipper puller and slider	Metal		
/	2	Sea blue coating on metal zipper puller / slider / tag / connector / axis	Coating		
/	3	Transparent plastic zipper top stop	Plastic		
/	4	Sea blue plastic zipper teeth	Plastic		
/	5	Silvery metal zipper puller (after removed sea blue coating)	Metal		
/	6	Silvery metal zipper slider (after removed sea blue coating)	Metal		
/	7	Brass metal tag on zipper slider (after removed sea blue coating)	Metal		
/	8	Brass metal connector on zipper slider (after removed sea blue coating)	Metal		
/	9	Brass metal axis on zipper slider (after removed sea blue coating)	Metal		

Lead in paint/similar surface coating material

Method: CPSC Test Method: CPSC-CH-E1003-09.1 'Standard Operating Procedure for Determining Lead (Pb) in Paint and Other Similar Surface Coatings' (or accredited test method)

	Result (mg/kg)
	2
Lead (Pb)	n.d.
Conclusion	Pass

Note: n.d.=not detected
mg/kg = ppm
* = exceed the limit
Detection limit = 20 mg/kg

Client's Requirement 90 mg/kg

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Test Report

No.: HKSL1301018593TX

Date: Feb 14, 2013

Page 6 of 7

Lead in substrate

Method (non-metallic materials): CPSC Test Method: CPSC-CH-E1002-08.1 'Standard Operation Procedure for Determining Total Lead (Pb) in Non-Metal Children Product'

Method (metal materials): CPSC Test Method: CPSC-CH-E1001-08.1 'Standard Operating Procedure for Determining Total Lead (Pb) in Children's Metal Products (Including Children's Metal Jewelry)'.

	Result (mg/kg)	
	3	4
Lead (Pb)	n.d.	n.d.
Conclusion	Pass	Pass

	Result (mg/kg)	
	5	6
Lead (Pb)	72	43
Conclusion	Pass	Pass

	Result (mg/kg)		
	7	8	9
Lead (Pb)	n.d.	29	n.d.
Conclusion	Pass	Pass	Pass

Note: n.d.=not detected
mg/kg = ppm
* = exceed the limit
Detection limit = 20 mg/kg

Client's Requirement 300 mg/kg (metal/Leather/all other accessible components)

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Test Report

No.: HKSL1301018593TX

Date: Feb 14, 2013

Page 7 of 7

Nickel Release

Test Method: Simulation of wear and corrosion – EN 12472:2005 + A1:2009, followed by extraction – EN 1811:1998 + A1:2008. Analysis was conducted by Atomic Absorption Spectrometry (AAS).

Metal Sample	Trial	Sample Area (cm ²)	Volume of Test Solution (ml)	Nickel Release (µg/cm ² /week)	Adjusted Nickel Release (µg/cm ² /week)
1	1	12.02	13	< 0.10	< 0.01
	2	12.02	13	< 0.10	< 0.01

Note: n.d.= not detected
 *= exceed the limit
 < = less than

Client's Requirement 0.5 µg/cm²/week

Conclusion: Pass

*** End of Report ***

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