



NUMBER : TSNT00635354

Date : Apr 29, 2014

Sample Description:

Two (2) Pieces Of Submitted Cutting Said To Be 100% Cotton Allover Dye Printed Interlock Knitted Fabric In (A) Blue/White, (B) Pink/White For Baby Clothing.

Date Received : 04/25/2014
Date Tests Started : 04/25/2014
Order No. : 28&29&30&31
Buyer's Name : Babyglow group international ltd.

Tests Conducted:

As Requested By The Applicant, For Details Refer To Attached Page(S)

Conclusion:

<u>Tested Sample</u> (A&B)	<u>Standard</u> Azocolourants Content Requirement In Annex XVII Item 43 Of The REACH Regulation (EC) NO. 1907/2006 & Amendment No. 552/2009 And 126/2013 (Formerly Known As Directive 2002/61/EC)	<u>Result</u> Pass
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	(A)	(B)
Determination Of Formaldehyde – Part 1	#	#
Dimensional Stability To Washing	M	-
Colour Fastness To Washing	M	M
Colour Fastness To Rubbing	M	M
Colour Fastness To Perspiration	M	M
Resistance To Artificial Saliva And Sweat	#	#
Bursting Strength As Received	M	-

Remark : M = Commercially Acceptable; F = Fail
= No Comment

Authorized By :
For Intertek Testing Services
(Tianjin) Ltd.

Patrick Gong
Deputy General Manager



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Tests Conducted:

1. Determination Of Formaldehyde – Part 1 : Free And Hydrolysed Formaldehyde (ISO 14184-1:2011) :

(A)	(B)
< 5ppm	<5ppm

Remark : ppm = parts per million = mg/kg

2. Dimensional Stability To Washing (ISO 3759-2011/ISO 5077-2007/ISO 6330-2012, Wascator Washing Machine-Front-Loading Horizontal Rotating Drum Type, Test Programme 4M, 40°C, With 2 kg Total Load, In 20 g Non-Phosphate Reference Detergent 3, Followed By Tumble Dry Low With Hand Ironing) :

<u>After One Wash</u>	(A)
Length	-1.1%
Width	-0.7%

Remark : (+) Means Extension And (-) Means Shrinkage

3. Colour Fastness To Washing (ISO/105 C06 A2S-2010, Single Test, 30 Minutes Mechanical Wash At 40°C In 0.4% ECE Reference Detergent And 0.1% Sodium Perborate Solution With 10 Steel Balls) :

	(A)	(B)
Colour Change	4-5	4-5
Colour Staining		
- Acetate	4-5	4-5
- Cotton	4-5	4-5
- Nylon	4-5	4-5
- Polyester	4-5	4-5
- Acrylic	4-5	4-5
- Wool	4-5	4-5
Cross Staining	5	5

4. Colour Fastness To Rubbing (ISO 105 X12-2001, Using The 16mm Diameter Rubbing Finger) :

	(A)	(B)
Dry	4-5	4-5
Wet	4-5	4-5



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5. Colour Fastness To Perspiration (ISO/105 E04-2013) :

Sample(A)	<u>Acid</u>	<u>Alkaline</u>
Colour Change	4-5	4-5
Colour Staining		
- Acetate	4-5	4-5
- Cotton	4-5	4-5
- Nylon	4-5	4-5
- Polyester	4-5	4-5
- Acrylic	4-5	4-5
- Wool	4-5	4-5

Sample(B)	<u>Acid</u>	<u>Alkaline</u>
Colour Change	4-5	4-5
Colour Staining		
- Acetate	4-5	4-5
- Cotton	4-5	4-5
- Nylon	4-5	4-5
- Polyester	4-5	4-5
- Acrylic	4-5	4-5
- Wool	4-5	4-5

6. Resistance To Artificial Saliva And Sweat (DIN 53160-1/DIN 53160-2:2010) :

Sample(A)	<u>Solution 1</u> <u>(Saliva)</u>	<u>Solution 2</u> <u>(Sweat)</u>
Grade	4-5	4-5

Sample(B)	<u>Solution 1</u> <u>(Saliva)</u>	<u>Solution 2</u> <u>(Sweat)</u>
Grade	4-5	4-5

7. Bursting Strength As Received (ISO 13938-1-1999, Mullen Type Burster) :

(A)
Over 560 Kpa



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Tests Conducted :

8. Detection Of Amines Derived From Azocolourants and Azodyes On Composite Sample (A&B) :

By Gas Chromatographic - Mass Spectrometric (GC-MS) And High Performance Liquid Chromatographic (HPLC) Analysis.

Test Method : EN 14362-1 : 2012 For Textile Material

	<u>Forbidden</u>	<u>Cas No.</u>	<u>Result</u>
1.	4-Aminodiphenyl	92-67-1	N
2.	Benzidine	92-87-5	N
3.	4-Chloro-o-Toluidine	95-69-2	N
4.	2-Naphthylamine	91-59-8	N
5.	o-Aminoazotoluene	97-56-3	N
6.	2-Amino-4-Nitrotoluene	99-55-8	N
7.	p-Chloroaniline	106-47-8	N
8.	2,4-Diaminoanisole	615-05-4	N
9.	4,4'-Diaminodiphenylmethane	101-77-9	N
10.	3,3'-Dichlorobenzidine	91-94-1	N
11.	3,3'-Dimethoxybenzidine	119-90-4	N
12.	3,3'-Dimethylbenzidine	119-93-7	N
13.	3,3'-Dimethyl-4,4'diaminodiphenylmethane	838-88-0	N
14.	p-Cresidine	120-71-8	N
15.	4,4'-Methylene-Bis(2-Chloroaniline)	101-14-4	N
16.	4,4'-Oxydianiline	101-80-4	N
17.	4,4'-Thiodianiline	139-65-1	N
18.	o-Toluidine	95-53-4	N
19.	2,4-Toluylenediamine	95-80-7	N
20.	2,4,5-Trimethylaniline	137-17-7	N
21.	o-Anisidine	90-04-0	N
22.	p-Aminoazobenzene	60-09-3	N

Remark : N = Not Detected

Detection Limit = 5 ppm

Requirement = 30 ppm (Max.)

ppm = Parts Per Million = mg/kg
