

Hong Kong Government Recognized Service Supplier
Approved Laboratory of The Woolmark Company

Members of :

American National Standards Institute Hong Kong Association for Testing, Inspection and Certification Limited
American Society for Testing and Materials Hong Kong Toys Council
British Standards Institute

TEST REPORT

Number: Specimen 001

Date: Apr 13, 2006

Applicant: xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
xxxxxxxxxxxxxxxxxxxxxxxxxxxx
xxxxxxxxxxxxxxxxxxxxxxxxxxxx
xxxxxxxxxxxxxxxxxxxxxxxxxxxx
xxxxxxxx

Attn: xxxxxxxxxxxxxxxx

Sample Description :

Three (3) pieces of submitted sample said to be garment in:

(A) Black with the following testing components:

- (1) Black/White stripe 100% Polyester shell fabric.
- (2) Black mesh fabric.

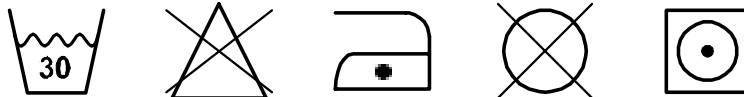
(B) Pink with the following testing components:

- (1) Pink/Black stripe 100% Polyester shell fabric.
- (2) Pink mesh fabric.

(C) Aqua with the following testing components:

- (1) Aqua/Blue stripe 100% Polyester shell fabric.
- (2) Aqua mesh fabric.

Applicant's Provided Care Instruction/Label :



Date Received/Date Test Started : Apr 06, 2006

Contract No. : 28618

Ref. : WSNWGT601

LEC No. : 032901 to 032903, 033001 to 033003

Salon No. : 156


Mod No. : 1157/01, 1157/02

Size Range : 38/40, 42/44, 46/48, 50/52

Buyer : xxxxxxxxxxxxxxxxxxxxxxxx

Supplier : xxxxxxxxxxxxxxxxxxxxxxxx

For and on behalf of
Intertek Testing Services Hong Kong Limited


Michael M.H. Fok
General Manager
Textile And Footwear Division



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Conclusion:

	(A)	(B)	(C)
Fibre Analysis	C1	-	-
Dimensional Stability To Washing	M	-	-
Appearance After Wash	M	-	-
Colour Fastness To Washing	M	-	-
Abrasion Resistance	M	-	-
Fabric Weight As Received	#	-	-
Detection Of Amines In Dyestuff	M2	M2	M2
Formaldehyde Content	M	M	M

Note : M = Meet Buyer's Requirement

= No Comment

N/A = Not Applicable

C = Conform Label

F = Below Buyer's Requirement

- = Did Not Perform

* = See Remark

Remark :

C1 Sample A conforms to the declared Fibre Content.

M2 All samples pass in Detection Of Amines In Dyestuff as per council directive 2002/61/EC relating to restrictions on the marketing and use of certain dangerous substances and preparations (Azocolourants).

For and on behalf of
Intertek Testing Services Hong Kong Limited

Michael M.H. Fok
General Manager
Textile And Footwear Division

Intertek Testing Services Hong Kong Ltd.

2/F., Garment Centre, 576 Castle Peak Road, Kowloon, Hong Kong.
Tel: (852) 2173 8888 Fax: (852) 2786 1903 website:www.intertek.com

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Tests Conducted (As Requested By The Applicant)

1 Fibre Analysis

ISO 1833-1977/A-1980(E), Section 16

Polyester	(A) 100%	<u>Marked</u> 100% Polyester
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2 Dimensional Stability To Washing (ISO 5077-1984/ISO 6330-1984, Wascator Washing Machine-Front-Loading Horizontal Rotating Drum Type, Test Programme 8A, 30°C With 2 kg Load, In 0.08% ECE Reference Detergent And 0.02% Sodium Perborate Solution, Followed By Tumble Dry Delicate With Hand Ironing):

(A)	Original	After One Wash	Dimensional Change	<u>Requirement</u>
	=====	=====	=====	
	(cm)	(cm)	(%)	+/-4.0%
Chest	82.6	82.0	-0.7	
Hip	98.0	97.0	-1.0	
Bottom	133.0	131.6	-1.1	
Centre Back Length	70.7	70.0	-1.0	
Side Seam	70.5	70.5	Negligible	

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

3 Appearance After Wash (ISO 6330-1984, Wascator Washing Machine-Front-Loading Horizontal Rotating Drum Type, Test Programme 8A, 30°C With 2 kg Load, In 0.08% ECE Reference Detergent And 0.02% Sodium Perborate Solution, Followed By Tumble Dry Delicate):

(A)	<u>Requirement</u>
<u>After Five Washes</u>	
<u>Observation</u> :	
. Slight fading on Black woven.	-
. The following could be improved by cool ironing :	
-Slight puckers along stitching	
-Tiny creases on body	
General Appearance : Acceptable	



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- 4 Colour Fastness To Washing (30 Minutes Mechanical Wash At 30°C In 0.4% ECE Reference Detergent And 0.1% Sodium Perborate Solution With 10 Steel Balls):

	(A)	<u>Requirement</u>
Colour Change	4-5	3-4
Colour Staining		3-4
-Acetate	4-5	
-Cotton	4-5	
-Nylon	4	
-Polyester	4	
-Acrylic	4-5	
-Wool	4-5	

- 5 Abrasion Resistance (ISO 12947-2:1998, Martindale Abrasion And Pilling Tester, 9 kPa Total Weight):

	(A)	<u>Requirement</u>
<u>Resistance</u>		
Face Side	Over 20,000 rubs	20000 rubs

- 6 Fabric Weight As Received (NF G07-150:1984):

	(A)	<u>Marked</u>
<u>At Standard Testing Atmosphere</u>		
	88.2 g/m ² (2.6 oz/yd ²)	-

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7 Detection Of Amines In Dyestuff:

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

Test Method : Textile Method (EN 14362-1 : 2003)

Polyester Method (EN 14362-2 : 2003)

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



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Tests Conducted (As Requested By The Applicant)

Detection Of Amines In Dyestuff (Cont'd)

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

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Detection Of Amines In Dyestuff (Cont'd)

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

Remark : N = Not detected (Less than 20 ppm)

Applicant's Requirement = 30 ppm (Max.)

ppm = Parts per million = mg/kg

Detection Limit = 5 ppm



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8 Formaldehyde Content:

As Per ISO 14184-1, By Spectrometric Analysis.

<u>Tested Component</u>	<u>Result In (ppm)</u>	<u>Requirement</u>
(A)		
(1/2)	<5	100 max (ppm)
(B)		
(1/2)	<5	100 max (ppm)
(C)		
(1/2)	<5	100 max (ppm)

Remark : ppm = Parts per million = mg/kg
< = Less than