



Test Report

No.: HKSL1304057728FW

Date: Apr 16, 2013

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VIOLET INTL LTD.
SUITE 501, TOWER A, WINNER PLAZA
NO.100 HUANG PU DA DAO WEST
,GUANGZHOU,CHINA

The following sample was submitted and identified on behalf of the buyer as:

One sample of woven polyester lining cutting in beige for Baillerina adult.

Buyer	:	Springfield Women
Ref. No.	:	2AZ064
Order No.	:	2485022/ 2485023/ 2485024/ 2485279/ 2485324/ 2485369/ 2485441/ 2485478
Style No. (Model Name)	:	2AZ064
Patron No.	:	9882294
Country Of Origin	:	CHINA
Country Of Destination	:	Europe
Sample Receiving Date	:	Apr 08, 2013
Test Performing Period	:	Apr 08, 2013 - Apr 16, 2013
Test Performed	:	Full test(s) as requested by applicant against Springfield Women's performance standard.

* * * *

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

Washed, residual & tested sample returned to applicant

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Conclusions : Azo dyes test M
pH value in textile M
Free formaldehyde in textile M

Remarks : M = Meet Springfield Women's requirement

Signed for and on behalf of
SGS Hong Kong Ltd.

Ip Nga Yan, May
Senior Account Executive

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Test Results:

Sample	Material No.	Component Description	Material	Fiber Composition* (Natural / Man-made / Polyester / Elastane)
/	1	fabric	textile	Natural

* The fiber composition check is conducted by SGS in-house method – Flame checking / Microscopic identification.

This screening test is designed for the proper selection of azo dye testing procedure (i.e. EN 14362-1/3:2012).

Note:

Natural = Textile contains natural fibers only and/or regenerated fibers exclude the group of acetate.

Man-made = Textile contains synthetic fibers and/or blended fibers

Free Formaldehyde in Textile

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

	Result
	1
Formaldehyde	n.d
Conclusion	Pass

Note: n.d. = not detected
* = exceed the limit
mg/kg = ppm
Detection limit = 16 mg/kg

Client's Requirement: 75 mg/kg

Remark: Test was performed on composite of random parts of the item as per client's request and the test result is the overall result.
= Pass/Fail cannot be given due to the presence of substance(s) is above the detection limit, but below requirement. Detected substance(s) may come from one or more component(s) in composite testing. Individual testing of mixed components is highly recommended.
^ = Detected substance(s) may come from one or more component(s) in composite testing. Individual testing of mixed components is highly recommended.

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Azo Dye Stuff

Test Method: Polyester: According to BS EN 14362-1:2012 - Analysis was conducted with GC-MS/HPLC-DAD.

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

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Note: n.d. = not detected
mg/kg = ppm
* = exceed the limit
Detection Limit = 5 mg/kg (for individual compound)

Client's Requirement: 20 mg/kg (for individual compound)

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.

= Pass/Fail cannot be given due to the presence of substance(s) is above the detection limit, but below requirement. Detected substance(s) may come from one or more component(s) in composite testing. Individual testing of mixed components is highly recommended.

^ = Detected substance(s) may come from one or more component(s) in composite testing. Individual testing of mixed components is highly recommended.

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.

Remark: Test result for 4-aminoazobenzene (CAS no.: 60-09-3) is considered as "not detected" (i.e. <5mg/kg) since both aniline and/or 1,4-phenylenediamine is not found (i.e. <5mg/kg) by mentioned test method.

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pH Value in Textile

Test Method: According to EN ISO 3071:2006

	<u>Result</u>
	<u>1</u>
pH value	6.5
Conclusion	Pass

Note:	Extraction medium	KCl solution
	pH value of extraction medium	5.96
	Temperature of the extraction solution	22 °C

Client's Requirement: 4.0 - 8.5

***** End of Report *****

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