



TEST REPORT

**BUREAU
VERITAS**

Technical Report: (7522)157-0094

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June 14, 2022



**Report Number
(7522)157-0094**

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**BUREAU
VERITAS**

TEST REPORT

LAB NO.: (7522)157-0094
FORM NO.: /
DATE IN: Jun 06, 2022
MOD DATE: Jun 09, 2022
DATE OUT: Jun 14, 2022
NO. OF WORKING DAYS: 4
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OVERALL RATING

PASS X
FAIL _____
DATA _____

Vendor:	SHAOXING KEFEI TEXTILE CO LTD	Agent:	/
Fabric Supplier/Mill:	/	Factory/Manufacturer:	/
P.O. No.:	/	Style No.:	/
Sample Description:	ONE PC OF WOVEN GARMENT	Style Description:	/
Color:	BLACK(NAMED BY LAB)	Country of Origin:	/
Claimed Fabric Weight:	/	Claimed Fabric Count:	/
Yarn Size:	/	Submitted Size:	/
Size Range:	/	FPU No.:	/
GPU No.:	/	End Use:	/
SKU:	/		

Product Category	GARMENT
Test Requested	SELECT TEST
Previous Report No.	/

Submitted Fiber Content	/
Actual Fiber Content	100% POLYESTER
Suggested Fiber Content	100% POLYESTER
Submitted Care Instruction(s)	WASH BY HAND, DO NOT BLEACH, DO NOT INSOLATE
Client Expected Care Instruction	/
Suggested Care Instruction(s)	/

TEST PROPERTY	PASS	FAIL	DATA	COMMENTS
COLORFASTNESS TO ACTUAL LAUNDERING OR COMMERCIAL DRY CLEANING			X	
APPEARANCE AFTER CARE			X	
HAND WASH			X	
FABRIC WEIGHT			X	
FIBER ANALYSIS: QUANTITATIVE			X	
POCKET REINFORCEMENT			X	
QUICK METHODS FOR COLORFASTNESS TO NON-CHLORINE BLEACH			X	
AZO DYES CONTENT	X			
WATER REPELLENCY: SPRAY TEST			X	

**TECHNICAL
QUESTIONS**

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SIGNATURES

Zhejiang Bureau Veritas Consumer Products' Service
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**GENERAL
INFORMATION**

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Cattery Fang
Lab Manager

<u>TEST PROPERTY</u>	<u>TEST RESULTS</u>	<u>REQUIREMENTS</u>
<u>COLORFASTNESS TO ACTUAL LAUNDERING OR COMMERCIAL DRY CLEANING</u> (CPSD-SL-31055 SECTION 9.3, HAND WASH COLD, LINE DRY, AFTER 3 WASHES, COOL IRON)		
COLOR CHANGE	4	/
<u>COLOR STAIN ON</u>		
ACETATE	4.5	/
COTTON	4.5	/
NYLON	4.5	/
POLYESTER	4.5	/
ACRYLIC	4.5	/
WOOL	4.5	/
<u>APPEARANCE AFTER CARE</u> (CPSD-SL-31055-MTHD, HAND WASH COLD, WOOLITE DETERGENT, LINE DRY, AFTER 3 WASHES, COOL IRON)		
COLOR CHANGE	4.0	/
PILLING	4.0	/
SEAM PUCKERING	SATISFACTORY	/
ANY OBSERVED DEFECTS	SATISFACTORY	/
	COOL IRON:SAFE	
<u>HAND WASH</u> (CPSD-SL-31042-MTHD)		
MODIFIED, WOOLITE DETERGENT, HAND 3 WASHES, 3 DRY, AT 27 DEGREE CELSIUS (80 FAHRENHEIT TEMP), LINE DRY		
GARMENT	ORIGINAL (IN.)	AFTER WASHED (IN.) (GENERAL)
TOTAL LENGTH	32.50	32.50 0.0
TOTAL WIDTH	27.00	27.00 0.0
(+) DENOTES ELONGATION (-) SHRINKAGE		
<u>FABRIC WEIGHT</u> (ASTM D3776-20, OPTION C)		
OZ / SQ. YD	5.43	/
G. / SQ. M	184	/

<u>TEST PROPERTY</u>	<u>TEST RESULTS</u>	<u>REQUIREMENTS</u>
<u>FIBER ANALYSIS: QUANTITATIVE</u> (AATCC 20A-18, USING MECHANICAL SEPARATION METHOD/ CHEMICAL TEST METHOD/ MICROSCOPICAL ANALYSIS METHOD, ASTM D1909 MOISTURE REGAINS APPLIED)		
SUBMITTED	/	
LAB ANALYSIS	100% POLYESTER	/
REMARKS: THE LABELED FIBER 100% POLYESTER CONTENT FOR THE SUBMITTED SAMPLE IS RECOMMENDED AS		

POCKET REINFORCEMENT (ASTM D7506/D7506M-17 / AATCC/ ASTM TS-010/
ASTM D5034 MODIFIED)

	(GENERAL)		SEAM STRENGTH (LBS.)		MODE OF FAILURE
	Test Data	Requirement	Test Data	Requirement	
POCKET	54.3	/	/	/	FRS

REMARKS: STB - SEWING THREAD BREAKAGE
FRS - FABRIC RUPTURE AT SEAM
FR - FABRIC RUPTURE AT PLACES OTHER THAN JAW OR AT SEAM

QUICK METHODS FOR COLORFASTNESS TO NON-CHLORINE BLEACH (AATCC/
ASTM TS-001)

COLOR CHANGE (PEROXIDE)	4.5	/
COLOR CHANGE (PERCARBONATE)	4.5	/

WATER REPELLENCY: SPRAY TEST (AATCC 22-17)

ORIGINAL (RATING)	75	/
AFTER 1 WASH (RATING)	75	/
AFTER 3 WASHES (RATING)	70	/

SPRAY RATING:
100 - NO STICKING OR WETTING OF UPPER SURFACE
90 - SLIGHT RANDOM STICKING OR WETTING OF UPPER SURFACE
80 - WETTING OF UPPER SURFACE AT SPRAY POINTS
70 - PARTIAL WETTING OF WHOLE OF UPPER SURFACE
50 - COMPLETE WETTING OF WHOLE OF UPPER SURFACE
C/N SM 3R/F

0 - COMPLETE WETTING OF WHOLE UPPER AND LOWER SURFACE

TEST RESULTS

TEST PROPERTY

REQUIREMENTS

Azo Dyes Content (Analysis of Amines in Dyestuff)

Test Method I : ISO EN 14362-1:2017

Test Method II : ISO 17234-1: 2015

Test Method III : EN 14362-3:2017

Test Method IV : ISO 17234-2:2011

Quantification analysis by GC-MS and confirmation by LC-DAD.

Tested Item(s) : I001 BLACK FABRIC

Client's Limit:	30 mg/kg
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Tested Item(s)	Test Method	Result			Conclusion
		Detected Analyte(s)	Conc.	Unit	
I001	I	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-Toluidine)	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
25	4-Chloro-o-Toluidine chloride	3165-93-3	27	4-methoxy-m-phenylene diammonium sulphate; 2,4-Diaminoanisole sulphate	39156-41-7
26	2-Naphthylammoniumacetate	553-00-4	28	2,4,5-Trimethylaniline hydrochloride	214436-97-5

COLORFASTNESS RATING
COLOR CHANGE

- 5 NEGLIGIBLE OR NO CHANGE
- 4 SLIGHTLY CHANGED
- 3 NOTICEABLY CHANGED
- 2 CONSIDERABLY CHANGED
- 1 MUCH CHANGED

COLORFASTNESS RATING
COLOR STAIN
SELF STAINING

- 5 NEGLIGIBLE OR NO STAINING
- 4 SLIGHTLY STAINED
- 3 NOTICEABLY STAINED
- 2 CONSIDERABLY STAINED
- 1 HEAVILY STAINED