TEST REPORT

Technical Report: (7522)157-0094

Zhejiang Bureau Veritas Consumer Products' Service Shenyue (Shaoxing) Co., Ltd.
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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

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)	/

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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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GENERAL INFORMATION
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SIGNATURES
Zhejiang Bureau Veritas Consumer Products' Service Shenyue (Shaoxing)

Cattery Fang
Lab Manager

TEST PROPERTY	TEST RESULTS	REQUIREMENTS
COLORFASTNESS TO ACTUAL LAUNDERING OR COMMERCIAL DRY CLEANING(CPSD-SL-31055 SECTION 9.3, HAND WASH COLD, LINE DRY, AFTER 3 WASHES,COOL IRON)		
COLOR CHANGE	4	/
COLOR STAIN ON		
ACETATE	4.5	/
COTTON	4.5	/
NYLON	4.5	/
POLYESTER	4.5	/
ACRYLIC	4.5	/
WOOL	4.5	/
APPEARANCE AFTER CARE (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	/
HAND WASH(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

FABRIC WEIGHT(ASTM D3776-20, OPTION C)		
OZ / SQ. YD	5.43	/
G. / SQ. M	184	/

TEST RESULTS

TEST PROPERTY		**REQUIREMENTS**
FIBER ANALYSIS: QUANTITATIVE(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 CONTENT FOR THE SUBMITTED SAMPLE IS RECOMMENDED AS	100% POLYESTER	

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

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:
1. *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.
2. 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-Tolidine)	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-Trimethy laniline 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

C/N SM 3R/F