



**BUREAU
VERITAS**

Adidas Group TEST REPORT

REPORT NO. : (9618)240-0198
DATE : August 31, 2018
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APPLICANT & ADDRESS : **FORTUNE GLOBAL CO., LTD**
D20/4B VO VAN VAN STR., VINH LOC B COMMUNE, BINH
CHANH DIST., HCM CITY, VIET NAM

CONTACT PERSON : MR. TAM

DATE OF SUBMISSION : August 28, 2018

TESTING PERIOD : August 28, 2018 To August 31, 2018

SAMPLE DESCRIPTION : Sample(s) received is/are stated to be:
FUSIBLE INTERLINING CODE D28FS, 2YDS WHITE
COLOR, 2 YDS BLACK COLOR
WHITE & BLACK

Color (Name & Code):
Product End Use/ Buyer Division: Accessories & Gear
Age Group: Adults
Manufacturer/ Supplier: FORTUNE GLOBAL CO., LTD
P.O. No.: /
Material Composition: /
Country of Origin: /
Country of Destination: /
Sample Classification: Material Name: 400 POLYESTER TEXTILES
Material key code under Adidas-
Group A-01 test standard (2017): 400
RSL based on: The Adidas-Group A-01 RSL (2018)
Additional Information: /
Article No.: D28SF
Style/ Model No.: N/A
Material ID: POLYESTER

BUYER/ SUPPLIER : ADIDAS

REPORT TYPE : First Order (FO), Full Test (FT)

RELATED (FO, FT) REPORT NO. : /

RETEST NO. : /

OVERALL CONCLUSION : PASS

FAILURE TEST(S) : /

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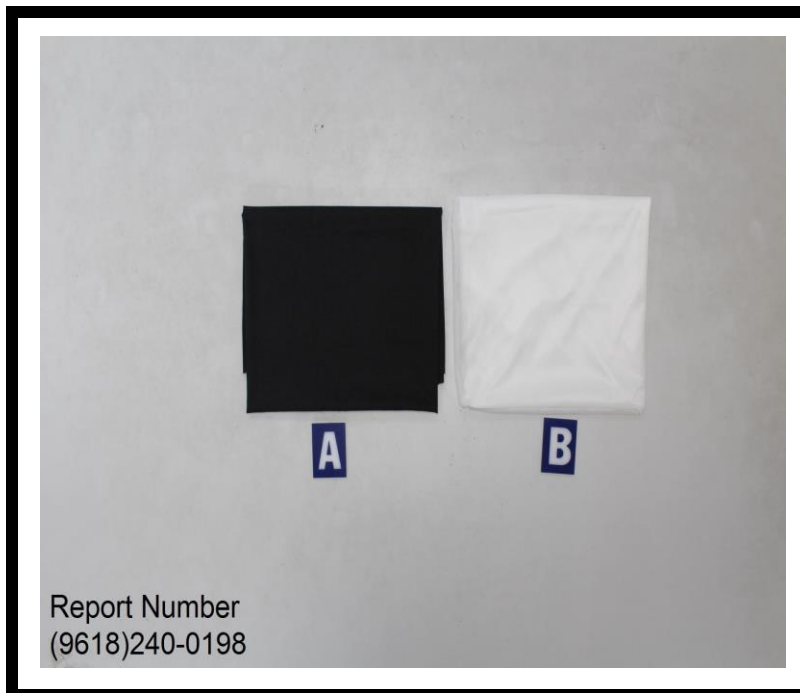
BUREAU VERITAS CONSUMER PRODUCTS SERVICES (VN) LTD.

LINA VO
MANAGER - ANALYTICAL



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Photo of the Submitted Sample





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SUMMARY OF TEST RESULTS

REQUIREMENT		
TEST REQUESTED – CHEMICAL TESTS	CONCLUSION	REMARK
EXTRACTABLE HEAVY METALS	PASS	
pH VALUE	PASS	
PHENOLS (PCP, TeCP, TriCP)	PASS	
AZO-AMINES	PASS	
FORMALDEHYDE	PASS	
DISPERSE DYES AND DYESTUFFS	PASS	
ORGANOTIN COMPOUNDS (TBT, TOT, DBT, DOT, TPhT, MBT, MOT)	PASS	
Σ of NP, OP, NPEO and OPEO	PASS	

Note: NA = Not Applicable

NR = Not Requested



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TEST RESULT – CHEMICAL

EXTRACTABLE HEAVY METAL

TEST METHOD: DIN EN ISO 105 E 04:2013 in acid solution, ICP-MS / ICP-OES with reference to DIN EN ISO 17294-2 (2017)

TESTED ITEM(S) : I001 BLACK FABRIC (A)
I002 WHITE FABRIC (B)

Parameter	Result (mg/kg)		Limit (mg/kg)
	I001	I002	
Antimony (Sb)	6	6.4	Adult: 30 Infants/ All Ages: 30
Cadmium (Cd)	ND	ND	0.1
Chromium (Cr)	ND	ND	Adult: 2 Infants/ All Ages: 1
Lead (Pb)	ND	ND	Adult: 1 Infants/ All Ages: 0.2
Mercury (Hg)	ND	ND	0.02
Conclusion	PASS	PASS	

Note: mg/kg = milligram per kilogram ND = not detected “<” = less than “>” = more than
Detection Limit (mg/kg): Sb (1), Cd (0.1), Cr (0.1), Pb (0.1), Hg (0.02)

pH VALUE

TEST METHOD I: ISO 3071:2006 (Non-Leather)
TEST METHOD II: DIN EN ISO 4045:2018 (Leather)

TESTED ITEM(S) : I001 BLACK FABRIC (A)
I002 WHITE FABRIC (B)

Test Item(s)	Test Method	Result	Conclusion	Limit
I001	I	5.2	PASS	Non-Leather: 4.0 – 7.5 Leather: 3.5 – 7.5
I002	I	5.1	PASS	



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TEST RESULT – CHEMICAL

PHENOLS (PCP, TeCP, TriCP)

TEST METHOD: KOH extraction (16hrs, 90C), GC-MS

TESTED ITEM(S) : I001 BLACK FABRIC (A)
I002 WHITE FABRIC (B)

Test Item(s)	Result		Conclusion	Limit (mg/kg)
	Detected Analyte(s)	Conc. (mg/kg)		
I001+I002	ND	ND	PASS	PCP, TeCP and TriCP: Adults: 0.5 Infants/ All ages: 0.05 <u>OPP:</u> 1000

Note: mg/kg = milligram per kilogram
Detection Limit: 0.05 mg/kg

“<” = less than
ND = not detected

“>” = more than

AZO-AMINES

TEST METHOD: With reference to EN ISO 14362-1:2017 (Textiles)
EN ISO 17234-1:2015 (Leather)
With reference to EN ISO 14362-3:2017 (pAAB analysis) (Textile)
EN ISO 17234-2:2011 (pAAB analysis) (Leather)

TESTED ITEM(S) : I001 BLACK FABRIC (A)

Test Item(s)	Result		Conclusion	Limit (mg/kg)
	Detected Analyte(s)	Conc. (mg/kg)		
I001	ND	ND	PASS	20

Note: mg/kg = milligram per kilogram
Detection Limit = 5 mg/kg

“<” = less than
ND = not detected

“>” = more than

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.



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TEST RESULT – CHEMICAL

FORMALDEHYDE

TEST METHOD I: DIN EN ISO 14184-1:2011 (Non-Leather)
TEST METHOD II: DIN EN ISO 17226-1/2 (Leather)

TESTED ITEM(S) : I001 BLACK FABRIC (A)
I002 WHITE FABRIC (B)

Test Item(s)	Test Method	Result (mg/kg)	Conclusion	Limit (mg/kg)
I001+I002	I	ND	PASS	<u>Non-Leather:</u> Adults: 75 Infants/ All ages: 16 (20mg/kg for apparel size 98 to 176) <u>Leather:</u> Adults: 75 Infants/ All ages: 20

Note: mg/kg = milligram per kilogram
Detection Limit: 5 mg/kg

“<” = less than
ND = not detected

“>” = more than

DISPERSE DYES AND DYESTUFFS

TEST METHOD: DIN 54231:2005

TESTED ITEM(S) : I001 BLACK FABRIC (A)

Test Item(s)	Result		Conclusion	Limit (mg/kg)
	Detected Analyte(s)	Conc. (mg/kg)		
I001	ND	ND	PASS	50

Note: mg/kg = milligram per kilogram
Detection Limit = 15 mg/kg

“<” = less than
ND = not detected

“>” = more than



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TEST RESULT – CHEMICAL

ORGANOTIN COMPOUNDS (TBT, TOT, DBT, DOT, TPhT, MBT, MOT)

TEST METHOD: With reference to ISO 16179: 2012

TESTED ITEM(S) : I001 BLACK FABRIC (A)
I002 WHITE FABRIC (B)

Test Item(s)	Result		Conclusion	Limit (mg/kg)
	Detected Analyte(s)	Conc. (mg/kg)		
I001+I002	ND	ND	PASS	TBT: Not detectable (<0.05) DBT, DOT, TOT, MBT, MOT: 1 TPhT: Infants/ All Ages: 0.5 Adults: 0.5

Note: mg/kg = milligram per kilogram
Detection Limit: 0.02 mg/kg

“<” = less than
ND = not detected

“>” = more than

Σ of NP, OP, NPEO and OPEO

TEST METHOD: Solvent extraction and GC-MS , LC-MS confirmation (NP & OP)
With reference to DIN EN ISO 18254-1:2016 (NPEO & OPEO – Others)
With reference to DIN EN ISO 18218-1:2015 (NPEO & OPEO - Leather)

TESTED ITEM(S) : I001 BLACK FABRIC (A)
I002 WHITE FABRIC (B)

Test Item(s)	Result		Conclusion	Limit (mg/kg)
	Detected Analyte(s)	Conc. (mg/kg)		
I001	ND	ND	PASS	100 (10 ppm for NP & OP as single parameter) / Cement: 1000
I002	ND	ND	PASS	

Note: mg/kg = milligram per kilogram
Detection Limit: NP, OP: 5 mg/kg, NPEO, OPEO: 30 mg/kg

“<” = less than
ND = not detected

“>” = more than



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List of tested customers parameters

LIST OF BANNED AMINES		
Specified Amines		
Number	Chemical Name (German)	CAS Number
1.	4-Aminodiphenyl	92-67-1
2.	Benzidine	92-87-5
3.	4-Chlor-o-toluidine	95-69-2
4.	2-Naphthylamine	91-59-8
5.	o-Aminoazotoluene	97-56-3
6.	2-Amino-4-nitrotoluene	99-55-8
7.	p-Chloraniline	106-47-8
8.	2,4-Diaminoanisole	615-05-4
9.	4,4'-Diaminodiphenylmethane	101-77-9
10.	3,3'-Dichlorbenzidine	91-94-1
11.	3,3 -Dimethoxybenzidine	119-90-4
12.	3,3'-Dimethylbenzidine	119-93-7
13.	3,3'-Dimethyl-4,4'-diaminodiphenylmethane	838-88-0
14.	p-Cresidine	120-71-8
15.	4,4'-Methylen-bis-(2-Chloraniline)	101-14-4
16.	4,4'-Oxydianiline	101-80-4
17.	4,4'-Thiodianiline	139-65-1
18.	o-Toluidine	95-53-4
19.	2,4-Toluyldiamine	95-80-7
20.	2,4,5-Trimethylaniline	137-17-7
21.	2,4-Dimethylaniline	95-68-1
22.	2,6-Dimethylaniline	87-62-7
23.	2-Methoxyaniline (= o-Anisidine)	90-04-0
24.	4-Aminoazobenzole*	60-09-3



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List of tested customers parameters

LIST OF PROHIBITED DISPERSE DYES TO BE TESTED			
Name of Dye	Abbreviation	CAS number	C.I. (Color Index)
Disperse Blue 1	DB 1	2475-45-8	64500
Disperse Blue 3	DB 3	2475-46-9	61505
Disperse Blue 35	DB 35	12222-75-2	-
Disperse Blue 106	DB 106	12223-01-7	-
Disperse Blue 124	DB 124	61951-51-7	-
Disperse Yellow 3	DG 3	2832-40-8	11855
Disperse Orange 3	DO 3	730-40-5	11005
Disperse Orange 37/59/76	DO 37	13301-61-6	-
Disperse Orange 149	DO 149	85136-74-9	-
Disperse Red 1	DR 1	2872-52-8	11110
Disperse Yellow 23	DG 23	6250-23-3	26070
Disperse orange 11	DO 11	82-28-0	60700
Acid red 26	-	3761-53-3	16150
Basic red 9	-	569-61-9	42500
Basic violet 14	-	632-99-5	42510
Direct black 38	-	1937-37-7	30235
Direct blue 6	-	2602-46-2	22610
Direct red 28	-	573-58-0	22120
Disperse Blue 7	DB 7	3179-90-6	62500
Disperse Blue 26	DB 26	-	63305
Disperse Blue 102	DB 102	12222-97-8	-
Disperse Brown 1		23355-64-8	
Disperse Yellow 1	DG 1	-	10345
Disperse Yellow 9	DG 9	6373-73-5	10375
Disperse Yellow 39	DG 39	-	-
Disperse Yellow 49	DG 49	-	-
Disperse Orange 1	DO 1	2581-69-3	11080
Disperse Red 11	DR 11	2872-48-2	62015
Disperse Red 17	DR 17	3179-89-3	11210
Basic Blue 26		2580-56-5	
Basic Violet 3		548-62-9	

* disperse orange 59 and disperse orange 76 are synonymic names for disperse orange 37

LIST OF PROHIBITED DISPERSE DYES TO BE TESTED			
Name of Dye	Abbreviation	CAS number	C.I. (Color Index)
Disperse Yellow 7	DG 7	6300-37-4	
Disperse Yellow 56	DG 56	54077-16-6	
Disperse Red 151		70210-08-1	
Solvent Red 23		85-86-9	
Navy Blue consists of: Dinatrium-(6-(4-anisidino)-3-sulfonato-2-(3,5-dinitro-2-oxidophenylazo)-1-naphtholato)(1-(5-chloro-2-oxidophenylazo)-2-naphtholato)chromat(1); Trinatrium bis(6-(4-anisidino)-3-sulfonato-2-(3,5-dinitro-2-oxidophenylazo)-1-naphtholato)chromat(1-)	Navy Blue	Component 1: 118685-33-9 $C_{39}H_{23}ClCrN_7O_{12}S_2Na$ Component 2: $C_{46}H_{30}CrN_{10}O_2S_3Na$	Index-Nr: 611-070-00-2 EG-Nr: 405-665-4
Basic Green 4 (oxalate)		2437-29-8 / 18015-76-4	42000
Basic Green 4 (chloride)		569-64-2	
Basic Green 4 (free)		10309-95-2	

- END -