

NAN TONG MAO JI INTERNATIONAL TRADE CO.,LTD
 GROUP 1, SHI LI DUN, JUE GANG TOWN, RU DONG COUNTY, JIANGSU PROVINCE, CHINA

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

Buyer : Uniqlo
 Sample/fabric description : (A,B,C)Knitted fabric(POLYESTER FABRIC COATING WITH PES)
 Sample style no. : PES-01, PES-03
 Garment description : WOVEN RESIN FINISHED FABRIC
 Season code : -
 Fabric no. /component code : -
 Fabric composition : Polyester
 Test package code : -
 Color no. : (A)white(PES-01) (B)black(PES-01) (C)white(PES-03)
 Garment factory : -
 Fabric mill : -
 Sample States : Bulk
 Product Category : Children
 Test status : Supplier Individual
 Country of Origin : -
 Country of Destination : -
 Proposed Care Instruction : -
 Test Performed : Selected test(s) as requested by applicant against specified requirement in April, 2017 version 2. (Revised: November, 2017)
 * * * * *
 Sample Receiving Date : May 29, 2018
 Sample Test Period : May 29, 2018 - Jun 04, 2018
 Test Result(s) : For further details, please refer to the following page(s).

SAMPLE	(A)	(B)	(C)
CONCLUSION	Pass	Pass	Pass
REMARK			



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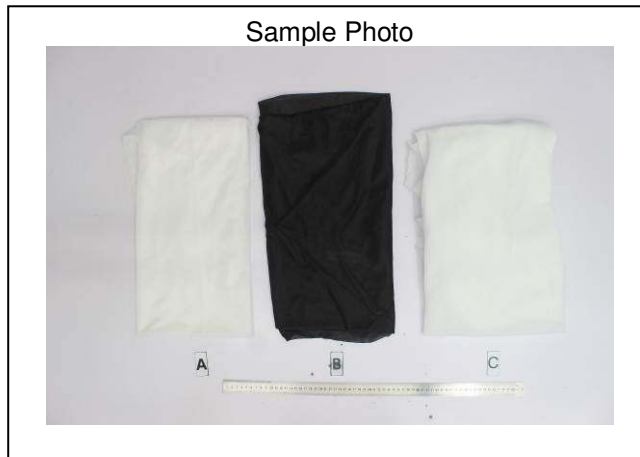
Test item	Sample No.	Sample description	Result	Data
Total Lead	1+2+3	Fabric	Pass	ND
Extractable Heavy Metal Content	1+2+3	Fabric	Pass	
Azo Dyes	2	Fabric	Pass	ND
Alkylphenols & Alkylphenol Ethoxylates (AP & APEO)	1+2+3	Fabric	Pass	ND
pH Value	1	Fabric	See result	6.8
pH Value	2	Fabric	See result	6.6
pH Value	3	Fabric	See result	6.6
Formaldehyde Content	1+2+3	Fabric	See result	ND

Signed for and on behalf of
 SGS-CSTC Standards Technical Services (Shanghai) Co. Ltd.

Daisy Liu

Daisy Liu
 Account Executive

Sample Photo



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Tested Component List / List of Materials

Sample No.	Material No.	Component	Material	Color	Remark
A	1	Knitted fabric	Textile	White	-
B	2	Knitted fabric	Textile	Black	-
C	3	Knitted fabric	Textile	White	-



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Testing Center

3rd Building, No. 889, Yishan Road, Xuhui District Shanghai, China 200233
中国·上海·徐汇区宜山路889号3号楼 邮编: 200233

t (86-21) 61402666 f (86-21) 64958763
t (86-21) 61402666 f (86-21) 64958763

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Test Results:

Total Lead

Test Method: Non-metal materials: CPSC-CH-E1002-08.3. Analysis was conducted by ICP-OES or AAS.

	<u>CAS-No.</u>	<u>Result</u>
		<u>1+2+3</u>
Lead (Pb)	7439-92-1	n.d.
Conclusion	--	PASS

Note: n.d. = not detected
 mg/kg = ppm
 The result is calculated using the minimum sample weight.
 Detection Limit = 5 mg/kg

Requirement:

Coating and plastic only in Apparel 30 mg/kg
Belt/Shoes/Bag and other parts in Apparel 90 mg/kg



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Extractable Heavy Metal Content

Test Method: With reference to ISO105-E04:2013 solution II, extraction with acidic sweat solution followed by analysis with ICP-OES/ICP-MS and UV-VIS for Cr VI.

	<u>CAS-No.</u>	<u>Result</u> 1+2+3
Antimony (Sb)	7440-36-0	3.51 mg/kg
Arsenic (As)	7440-38-2	n.d.
Lead (Pb)	7439-92-1	n.d.
Cadmium (Cd)	7440-43-9	n.d.
Chromium (Cr)	7440-47-3	n.d.
Chromium VI (Cr VI)	18540-29-9	n.d.
Cobalt (Co)	7440-48-4	n.d.
Copper (Cu)	7440-50-8	n.d.
Nickel (Ni)	7440-02-0	n.d.
Mercury (Hg)	7439-97-6	n.d.
Conclusion	--	PASS

Note: n.d. = not detected
mg/kg = ppm

<u>Test item(s)</u>	<u>Detection Limit</u> <u>(mg/kg)</u>	<u>Requirement</u> <u>(mg/kg)</u>
Antimony (Sb)	1.0	30.0
Arsenic (As)	0.2	1.0
Lead (Pb)	0.2	1.0
Cadmium (Cd)	0.1	0.1
Chromium (Cr)	1.0	Non-leather: 2.0 Leather: 200
Chromium VI (CrVI)	0.5	0.5
Cobalt (Co)	1.0	4.0
Copper (Cu)	5.0	50.0 (non-metal)
Nickel (Ni)	0.5	1.0
Mercury (Hg)	0.02	0.02



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Azo Dyes (Direct Reduction & Colorant Extraction)

Test Method: Textile: According to EN ISO 14362-1:2017. Analysis was performed by GC-MS/HPLC-DAD.

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

Note: n.d. = not detectable
 mg/kg = ppm
 Detection Limit = 5 mg/kg (for individual compound)

Requirement: 20 mg/kg (for individual compound)



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Remark: + Direct reduction refers to the extraction and reduction according to EN ISO 14362-1:2017 clause 10.2 and relevant clauses.
 Colorant extraction refers to the colourant extraction and subsequent reduction according to EN ISO 14362-1:2017 clause 10.1 and relevant clauses.
 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) can be indirectly generated from some colorants which do not contain these amines azo bound.
 The use of banned azo colorants cannot be reliably ascertained without additional information.
 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.
 The EN ISO 14362-1:2017 methods will enable further cleavage of 4-aminoazobenzene to non-forbidden amines: aniline and 1,4-phenylenediamine. If aniline and/or 1,4-phenylenediamine is not found (i.e. 5.0 mg/kg) by mentioned test method, test result for 4-aminoazobenzene (CAS no. 60-09-3) is considered as "not detected" (i.e. <5.0 mg/kg). Otherwise, the test method of EN ISO 14362-3:2017 will be employed to verify the presence of 4-aminoazobenzene.



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Alkylphenols & Alkylphenol Ethoxylates (AP & APEO)

Test Method: In-house method. Analysis was performed by HPLC-MS.

	<u>CAS-No.</u>	<u>Result</u>
		<u>1+2+3</u>
Nonylphenol (NP)	--	n.d.
Octylphenol (OP)	--	n.d.
Sum of NP and OP	--	n.d.
Nonylphenol Ethoxylate (NPEO)	--	n.d.
Octylphenol Ethoxylate (OPEO)	--	n.d.
Sum of NP, OP, NPEO and OPEO	--	n.d.
Conclusion	--	PASS

Note: n.d. = not detected
 mg/kg = ppm
 Detection Limit:
 NP, OP = 3 mg/kg (for individual compound)
 NPEO, OPEO = 1 mg/kg (for individual compound)

Client's Requirement:

NP, OP 10 mg/kg (Sum)
NP, OP, NPEO, OPEO 100 mg/kg (Sum)



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pH Value

Test Method: According to ISO 3071:2005 (0.1mol/L KCL)

	Result		
	<u>1</u>	<u>2</u>	<u>3</u>
pH value	6.8	6.6	6.6

Note: pH value of extraction medium 5.8
 Temperature of the extraction solution 20.1°C

Formaldehyde Content

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

	<u>Result</u> <u>(mg/kg)</u>
Formaldehyde	<u>1+2+3</u> n.d.

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

End of Report



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