

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)Woven fabric (WOVEN RESIN FINISHED FABRIC)  
 Sample style no. : PES-03  
 Garment description : PES-03  
 Season code : -  
 Fabric no. /component code : -  
 Fabric composition : POLYESTER  
 Test package code : -  
 Color no. : (A)Black (B)White  
 Garment factory : -  
 Fabric mill : -  
 Sample States : Prototype  
 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 June, 2019 version  
 \* \* \* \*  
 Sample Receiving Date : Nov 21, 2019  
 Sample Test Period : Nov 21, 2019 - Nov 25, 2019  
 Test Result(s) : For further details, please refer to the following page(s).

SAMPLE	(A)	(B)
CONCLUSION	Pass	Pass
REMARK		



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Test item	Sample No.	Sample description	Result	Data
Alkylphenols (APs) & Alkylphenol Ethoxylates (APEOs)	1	Fabric	Pass	ND
Alkylphenols (APs) & Alkylphenol Ethoxylates (APEOs)	2	Fabric	Pass	ND
Azo Dyes and arylamine salts	1	Fabric	Pass	ND
pH Value	1	Fabric	Pass	5.8
pH Value	2	Fabric	Pass	5.6
Free Formaldehyde Content	1	Fabric	Pass	ND
Free Formaldehyde Content	2	Fabric	Pass	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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Test Results:

**Alkylphenols & Alkylphenol Ethoxylates (AP & APEO)**

Test Method: Textile: With reference to ISO 18254-1:2016. Analysis was conducted by HPLC-MS

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

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

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



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**Azo Dyes and arylamine salts in Textile (Direct Reduction & Colorant Extraction)**

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

	CAS-No.	Result	
		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-Toluylendiamine	95-80-7	n.d.	n.d.
2,4,5-Trimethylaniline	137-17-7	n.d.	n.d.
O-Anisidine	90-04-0	n.d.	n.d.
4-aminoazobenzene	60-09-3	n.d.	n.d.
2,4-Xylidine	95-68-1	n.d.	n.d.
2,6-Xylidine	87-62-7	n.d.	n.d.
4-chloro-o-toluidinium chloride Δ	3165-93-3	n.d.	n.d.
2-Naphthylammoniumacetate Δ	553-00-4	n.d.	n.d.
4-methoxy-m-phenylene diammonium sulphate; 2,4-diaminoanisole sulphate Δ	39156-41-7	n.d.	n.d.



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2,4,5-trimethylaniline hydrochloride $\Delta$	21436-97-5	n.d.	n.d.
<b>Conclusion</b>	--	<b>PASS</b>	<b>PASS</b>

Note: n.d. = not detectable  
 mg/kg = ppm  
 $\Delta$  = result was back calculated based on the determination of its amine  
 Reporting limit = 5 mg/kg (for individual compound)

**Requirement: 20 mg/kg (for individual compound)**

Remark: + Direct reduction refers to the extraction and reduction according to ISO 14362-1:2017 clause 10.2 and relevant clauses.  
 + Colorant extraction refers to the colourant extraction and subsequent reduction according to 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 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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