



Test Report

SL52105244566801TX

Date: April 12, 2021

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WUJIANG TUTAIKE TEXTILES & FINISHING CO.,LTD  
NO.1599, SOUTH 3RD RING ROAD, SHENGZE, WUJIANG, SUZHOU, JIANGSU

The following sample(s) was/were submitted and identified on behalf of the client as:

Sample Description : (A) Disposable Medical Protective Clothing

Sample Color : (A) white

Composition : (A) PP+PE

Style No. : TTK-A01

Lot No. : TTK-20200820

Manufacturer : Wujiang Tutaik Textiles & Finishing Co.,Ltd

Country of Origin : China

Other Info. : Country of Destination: Europe and America / Sample Dimension: 175 / Modal  
No.: M / Lot Size: 1

Proposed Care Instruction : -

Test Performed : Selected test(s) as requested by applicant

Sample Receiving Date : Mar 25, 2021

Testing Period : Mar 29, 2021 - Apr 12, 2021

Test Result(s) : Unless otherwise stated the results shown in this test report refer only to the sample(s) tested, for further details, please refer to the following page(s).

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

Sara Guo (Account Executive)

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Test Result

**Personal Protective Equipment - Protective Clothing - General Requirements**

EN ISO 13688:2013

**Clause 4.2 Azo Dyes (Direct Reduction & Colorant Extraction)**

Textile: According to EN ISO 14362-1:2017 – Analysis was conducted with GC-MS/HPLC-DAD.

Test Item(s)	Cas No	Result (mg/kg)	
		Blue adhesive tape Direct Reduction	Colorant Extraction
4-Aminobiphenyl	92-67-1	ND	ND
Benzidine	92-87-5	ND	ND
4-Chlor-o-toluidine	95-69-2	ND	ND
2-Naphthylamine	91-59-8	ND	ND
o-Aminoazotoluene	97-56-3	ND	ND
5-Nitro-o-Toluidine/2-Amino-4-Nitrotoluene	99-55-8	ND	ND
4-Chloroaniline	106-47-8	ND	ND
4-Methoxy-m-Phenylenediamine/2,4-Diaminoanisole	615-05-4	ND	ND
4,4'-Diaminodiphenylmethane, MDA	101-77-9	ND	ND
3,3'-Dichlorobenzidine	91-94-1	ND	ND
3,3'-Dimethoxybenzidine	119-90-4	ND	ND
3,3'-Dimethylbenzidine	119-93-7	ND	ND
4,4'-methylenedi-o-Toluidine/3,3'-Dimethyl-4,4'-Diaminodiphenylmethane	838-88-0	ND	ND
p-Cresidine	120-71-8	ND	ND
4,4'-Methylene-bis-(2-chloroaniline)	101-14-4	ND	ND
4,4'-Oxydianiline	101-80-4	ND	ND
4,4'-Thiodianiline	139-65-1	ND	ND
o-Toluidine	95-53-4	ND	ND
4-Methyl-m-Phenylenediamine/2,4-Toluylenediamine, TDA	95-80-7	ND	ND
2,4,5-Trimethylaniline	137-17-7	ND	ND
4-Aminoazobenzene	60-09-3	ND	ND
O-Anisidine	90-04-0	ND	ND
<b>Conclusion</b>		<b>PASS</b>	<b>PASS</b>
<b>Requirement: ND</b>			

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Note:

ND = Not Detected

Reporting Limit = 5 mg/kg (for individual compound)

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 ISO 14362-1:2017 Clause 10.1 and relevant clauses

4-Aminodiphenyl (CAS No. 92-67-1), 2-Naphthylamine (CAS No. 91-59-8) and 2,4-Diaminoanisole (CAS No. 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 PU is used, e.g. PU Foams or coatings, it cannot be ruled out that MDA (CAS No. 101-77-9) and TDA (CAS No. 95-80-7) can be released from PU material, not from banned azo colorant. Similarly, for pigment prints, MDA will be released from a chemical fixing agent.

EN ISO 14362-1:2017 will enable further cleavage of 4-AAB (CAS No. 60-09-3) to non-forbidden amines: aniline and p-phenylenediamine. If aniline and/or p-phenylenediamine is not found, 4-AAB is considered as "n.d." (i.e. <5.0 mg/kg). Otherwise, EN ISO 14362-3:2017 will be employed to verify the presence of 4-AAB.

**Clause 4.2 pH Value of Aqueous Extract**

(ISO 3071:2005; 0.1mol/L KCL extraction)

	Unit	Body	Requirement
pH Value	-	6.7	3.5-9.5

Note:

- 1) pH value of extraction medium: 5.7
- 2) Temperature of the extraction solution: 20.3°C

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**Clause 4.2 Nickel release**

Test Method : As specified in EN 1811:2011+ A1:2015, analysis was performed by ICP-OES

Test Item(s)

Volume of Test Solution

**Slider**

8.54 mL

Sample Area

8.54 cm<sup>2</sup>

Whether performed by EN 12472:2020 or not

YES

Nickel Release - Trial 1

ND

Nickel Release - Trial 2

ND

Nickel Release - Trial 3

ND

**Conclusion**

**PASS**

Notes :

RL (Reporting limit)=0.10µg/cm<sup>2</sup>/week

ND = Not Detected (< RL)

(1) NO: As Nickel is found to be positive by CR 12471:2002, simulation of wear and corrosion by the EN 12472:2020 is not performed

YES: As Nickel is found to be negative by CR 12471:2002, simulation of wear and corrosion by the EN 12472:2020 is performed

Comments are given according to Annex A of EN1811:2011+ A1:2015 as below:

Type of sample	Nickel Release (µg/cm <sup>2</sup> /week)	
	PASS	FAIL
Article with Nickel release limit of 0.5µg/cm <sup>2</sup> /week	<0.88	≥ 0.88
Article with Nickel release limit of 0.2µg/cm <sup>2</sup> /week	<0.35	≥ 0.35

**Sample Photo**



The statement of conformity in this test report is only based on measured values by the laboratory and does not take their uncertainties into consideration.

\*\*\*End of Report\*\*\*

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