

ANDUM PROTECTIVE EQUIPMENT TECHNOLOGY (CHANGZHOU) CO.,LTD.
NO.216, QIANJIE, HENGSHANQIAO TOWN, CHANGZHOU ECONOMIC ZONE, CHANGZHOU, JIANGSU,
CHINA.

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

Sample Description : (A)Mask
SGS Internal Ref.No. : SHHL2104017910SD
Sample Color : (A)red,black and yellow
Composition : (A)50% non-woven 30% melt-blown 20% hot air cotton
Other Info. : Sample Type: Samples from bulk

Proposed Care Instruction : -

Sample Receiving Date : Apr 23, 2021
Testing Period : May 07, 2021 - May 17, 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).

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

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



Susan Dong (Account Executive)



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SGS-CSTC Standards Technical Services (Changzhou) Co., Ltd.
Textile Laboratory

Building 30, No. 47, Qingyang North Road, Tianning District, Changzhou, China 213017 t (86-519)85358121 f (86-519)85358113 www.sgs.com.cn
中国·常州·天宁区青阳北路47号30号楼 邮编: 213017 t (86-519)85358121 f (86-519)85358113 e sgs.china@sgs.com

COMPONENT LIST / List of Materials

Sample No.	Component No.	Description	Material	Color	Remark
A	1	red print with face fabric	Blended Fibers	RED	
A	2	yellow print with face fabric	Blended Fibers	yellow	
A	3	black print with face fabric	Blended Fibers	black	
A	4	face fabric	Blended Fibers	red black and yellow	
A	5	back fabric	Blended Fibers	white	

Test Result

Azo Dyes (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)
1+2+3		
Colorant Extraction		
4-Aminobiphenyl	92-67-1	ND
Benzidine	92-87-5	ND
4-Chlor-o-toluidine	95-69-2	ND
2-Naphthylamine	91-59-8	ND
o-Aminoazotoluene	97-56-3	ND
5-Nitro-o-Toluidine/2-Amino-4-Nitrotoluene	99-55-8	ND
4-Chloroaniline	106-47-8	ND
4-Methoxy-m-Phenylenediamine/2,4-Diaminoanisole	615-05-4	ND
4,4'-Diaminodiphenylmethane, MDA	101-77-9	ND
3,3'-Dichlorobenzidine	91-94-1	ND
3,3'-Dimethoxybenzidine	119-90-4	ND
3,3'-Dimethylbenzidine	119-93-7	ND
4,4'-methylenedi-o-Toluidine/3,3'-Dimethyl-4,4'-Diaminodiphenylmethane	838-88-0	ND
p-Cresidine	120-71-8	ND
4,4'-Methylene-bis-(2-chloroaniline)	101-14-4	ND
4,4'-Oxydianiline	101-80-4	ND
4,4'-Thiodianiline	139-65-1	ND
o-Toluidine	95-53-4	ND
4-Methyl-m-Phenylenediamine/2,4-Toluylenediamine, TDA	95-80-7	ND
2,4,5-Trimethylaniline	137-17-7	ND
4-Aminoazobenzene	60-09-3	ND
O-Anisidine	90-04-0	ND
Conclusion		Pass

Requirement: 30mg/kg



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Note:

ND = Not Detected

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

Max. limit specified by entry 43 of Regulation (EC) No 552/2009 amending Annex XVII of REACH Regulation (EC) No 1907/2006.

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.

pH Value

(ISO 3071:2020; 0.1mol/L KCL extraction)

	Unit	4	5
pH Value	-	7.1	7.1

Note:

1) pH value of extraction medium: 5.9

2) Temperature of the extraction solution: 20.6°C



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Sample Photo



End of Report



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