

CONNEXIONS TECHNOLOGY (DONG GUAN) LTD.
NO.6, SHENBAO ROAD, QISHI TOWN, DONGGUAN, GUANGDONG, CHINA

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

Sample Description : Non-woven fabric in (A)Space pattern (B)Dog pattern (C)Cat pattern (D)Navy pattern (E)Multicolor

Sample Color : (A)Space pattern;(B)Dog pattern;(C)Cat pattern;(D)Navy pattern;(E)Multicolor

Composition : (A)Non-woven fabric;(B)Non-woven fabric;(C)Non-woven fabric;(D)Non-woven fabric;(E)Non-woven fabric

Style No. : CTPL-0020-002

Factory : CONNEXIONS TECHNOLOGY (DONG GUAN) LTD.

Country of Destination : United Kingdom, United States, Europe, Canada, Global

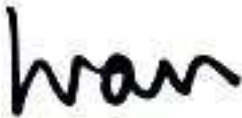
Sample Receiving Date : Jan 18, 2022

Testing Period : Jan 18, 2022 - Jan 27, 2022

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 Co., Ltd. Guangzhou Branch



Ivan Xie (Technical Manager)



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COMPONENT LIST / List of Materials

Sample No.	Component No.	Description	Material	Color	Remark
A	1	Non-woven fabric	Synthetic Fibers	Black/dark grey/grey/ pink/mint/purple/ white/ green/dark pink/yellow	
A	2	Non-woven fabric	Synthetic Fibers	Black/dark grey/grey	
A	3	Non-woven fabric	Synthetic Fibers	Pink/mint/black/ purple/white/grey /green	
A	4	Non-woven fabric	Synthetic Fibers	Dark pink/yellow/ mint/white/purple	
B	5	Non-woven fabric	Synthetic Fibers	Green/light green/olive/red/black/ yellow/white	
B	6	Non-woven fabric	Synthetic Fibers	Green	
B	7	Non-woven fabric	Synthetic Fibers	Light green/olive/red/ black/yellow/white	
C	8	Non-woven fabric	Synthetic Fibers	Light pink/pink/black/ white	
D	9	Non-woven fabric	Synthetic Fibers	Navy/blue/light blue	
E	10	Non-woven fabric	Synthetic Fibers	Pink/light pink/purple/ blue/beige	



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Test Result

pH Value

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

	Unit	1	5	8	Requirement
pH Value	-	7.3	7.4	7.2	-
	Unit	9	10	Requirement	
pH Value	-	7.4	7.6	-	

Note:

- 1) pH value of extraction medium: 5.0 - 7.5
- 2) Temperature of the extraction solution: 22°C

Azo Dyes(Direct reduction approach)

Test Method : According to EN ISO 14362-1:2017, analysis was performed by GC-MS/ HPLC-DAD.
Determination of 4-aminoazobenzene (CAS No.:60-09-3) – EN ISO 14362-3:2017, analysis was performed by GC-MS/ HPLC-DAD.

Test Item(s)	CAS NO.	Unit	MDL	2	3	4
4-Aminobiphenyl	92-67-1	mg/kg	5	ND	ND	ND
Benzidine	92-87-5	mg/kg	5	ND	ND	ND
4-chloro-o-toluidine	95-69-2	mg/kg	5	ND	ND	ND
2-naphthylamine	91-59-8	mg/kg	5	ND	ND	ND
o-aminoazotoluene	97-56-3	mg/kg	5	ND	ND	ND
5-nitro-o-toluidine /	99-55-8	mg/kg	5	ND	ND	ND
2-Amino-4-nitrotoluene						
4-chloroaniline	106-47-8	mg/kg	5	ND	ND	ND
4-methoxy-m-phenylenediamine	615-05-4	mg/kg	5	ND	ND	ND
/ 2,4-Diaminoanisole						
4,4'-diaminodiphenylmethane,	101-77-9	mg/kg	5	ND	ND	ND
MDA						
3,3'-dichlorobenzidine	91-94-1	mg/kg	5	ND	ND	ND
3,3'-dimethoxybenzidine	119-90-4	mg/kg	5	ND	ND	ND
3,3'-dimethylbenzidine	119-93-7	mg/kg	5	ND	ND	ND
4,4'-methylenedi-o-toluidine/3,3'-	838-88-0	mg/kg	5	ND	ND	ND
Dimethyl-4,4'-diaminodiphenylm						
p-cresidine						
ethane	120-71-8	mg/kg	5	ND	ND	ND
4,4'-methylene-bis-	101-14-4	mg/kg	5	ND	ND	ND
(2-chloroaniline)						
4,4'-oxydianiline	101-80-4	mg/kg	5	ND	ND	ND
4,4'-thiodianiline	139-65-1	mg/kg	5	ND	ND	ND
o-toluidine	95-53-4	mg/kg	5	ND	ND	ND
4-methyl-m-phenylenediamine /	95-80-7	mg/kg	5	ND	ND	ND
2,4-Toluyldiamine, TDA						
2,4,5-trimethylaniline	137-17-7	mg/kg	5	ND	ND	ND
4-aminoazobenzene	60-09-3	mg/kg	5	ND	ND	ND
O-Anisidine	90-04-0	mg/kg	5	ND	ND	ND



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Determination of 4-aminoazobenzene (CAS No.:60-09-3) – EN ISO 14362-3:2017, analysis was performed by GC-MS/ HPLC-DAD.

<u>Test Item(s)</u>	<u>CAS NO.</u>	<u>Unit</u>	<u>MDL</u>	<u>6</u>	<u>7</u>	<u>8</u>
4-Aminobiphenyl	92-67-1	mg/kg	5	ND	ND	ND
Benzidine	92-87-5	mg/kg	5	ND	ND	ND
4-chloro-o-toluidine	95-69-2	mg/kg	5	ND	ND	ND
2-naphthylamine	91-59-8	mg/kg	5	ND	ND	ND
o-aminoazotoluene	97-56-3	mg/kg	5	ND	ND	ND
5-nitro-o-toluidine /	99-55-8	mg/kg	5	ND	ND	ND
2-Amino-4-nitrotoluene						
4-chloroaniline	106-47-8	mg/kg	5	ND	ND	ND
4-methoxy-m-phenylenediamine	615-05-4	mg/kg	5	ND	ND	ND
/ 2,4-Diaminoanisole						
4,4'-diaminodiphenylmethane,	101-77-9	mg/kg	5	ND	ND	ND
MDA						
3,3'-dichlorobenzidine	91-94-1	mg/kg	5	ND	ND	ND
3,3'-dimethoxybenzidine	119-90-4	mg/kg	5	ND	ND	ND
3,3'-dimethylbenzidine	119-93-7	mg/kg	5	ND	ND	ND
4,4'-methylenedi-o-toluidine/3,3'-	838-88-0	mg/kg	5	ND	ND	ND
Dimethyl-4,4'-diaminodiphenylm						
p-cresidine						
ethane	120-71-8	mg/kg	5	ND	ND	ND
4,4'-methylene-bis-	101-14-4	mg/kg	5	ND	ND	ND
(2-chloroaniline)						
4,4'-oxydianiline	101-80-4	mg/kg	5	ND	ND	ND
4,4'-thiodianiline	139-65-1	mg/kg	5	ND	ND	ND
o-toluidine	95-53-4	mg/kg	5	ND	ND	ND
4-methyl-m-phenylenediamine /	95-80-7	mg/kg	5	ND	ND	ND
2,4-Toluyldiamine, TDA						
2,4,5-trimethylaniline	137-17-7	mg/kg	5	ND	ND	ND
4-aminoazobenzene	60-09-3	mg/kg	5	ND	ND	ND
O-Anisidine	90-04-0	mg/kg	5	ND	ND	ND



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Determination of 4-aminoazobenzene (CAS No.:60-09-3) – EN ISO 14362-3:2017, analysis was performed by GC-MS/ HPLC-DAD.

<u>Test Item(s)</u>	<u>CAS NO.</u>	<u>Unit</u>	<u>MDL</u>	<u>g</u>
4-Aminobiphenyl	92-67-1	mg/kg	5	ND
Benzidine	92-87-5	mg/kg	5	ND
4-chloro-o-toluidine	95-69-2	mg/kg	5	ND
2-naphthylamine	91-59-8	mg/kg	5	ND
o-aminoazotoluene	97-56-3	mg/kg	5	ND
5-nitro-o-toluidine /	99-55-8	mg/kg	5	ND
2-Amino-4-nitrotoluene				
4-chloroaniline	106-47-8	mg/kg	5	ND
4-methoxy-m-phenylenediamine	615-05-4	mg/kg	5	ND
/ 2,4-Diaminoanisole				
4,4'-diaminodiphenylmethane,	101-77-9	mg/kg	5	ND
MDA				
3,3'-dichlorobenzidine	91-94-1	mg/kg	5	ND
3,3'-dimethoxybenzidine	119-90-4	mg/kg	5	ND
3,3'-dimethylbenzidine	119-93-7	mg/kg	5	ND
4,4'-methylenedi-o-toluidine/3,3'-	838-88-0	mg/kg	5	ND
Dimethyl-4,4'-diaminodiphenylm				
p-cresidine				
ethane	120-71-8	mg/kg	5	ND
4,4'-methylene-bis-	101-14-4	mg/kg	5	ND
(2-chloroaniline)				
4,4'-oxydianiline	101-80-4	mg/kg	5	ND
4,4'-thiodianiline	139-65-1	mg/kg	5	ND
o-toluidine	95-53-4	mg/kg	5	ND
4-methyl-m-phenylenediamine /	95-80-7	mg/kg	5	ND
2,4-Toluyldiamine, TDA				
2,4,5-trimethylaniline	137-17-7	mg/kg	5	ND
4-aminoazobenzene	60-09-3	mg/kg	5	ND
O-Anisidine	90-04-0	mg/kg	5	ND



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Notes :

RL (Reporting limit): 5 mg/kg (for individual compound)

ND = Not Detected (< RL)

1. Direct reduction (Method A) refers to the extraction and reduction according to EN ISO 14362-1:2017 clause 10.2 and relevant clauses. Colorant extraction (Method B) refers to the colourant extraction and subsequent reduction according to EN ISO 14362-1:2017 Clause 10.1 and relevant clauses.

2. 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.

3. 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.

4. 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 "ND" (i.e. <5.0 mg/kg). Otherwise, EN ISO 14362-3:2017 will be employed to verify the presence of 4-AAB.



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Azo Dyes(Colorant extraction approach)

Test Method : According to EN ISO 14362-1:2017, analysis was performed by GC-MS/ HPLC-DAD.
Determination of 4-aminoazobenzene (CAS No.:60-09-3) – EN ISO 14362-3:2017, analysis was performed by GC-MS/ HPLC-DAD.

<u>Test Item(s)</u>	<u>CAS NO.</u>	<u>Unit</u>	<u>MDL</u>	<u>2</u>	<u>3</u>	<u>4</u>
4-Aminobiphenyl	92-67-1	mg/kg	5	ND	ND	ND
Benzidine	92-87-5	mg/kg	5	ND	ND	ND
4-chloro-o-toluidine	95-69-2	mg/kg	5	ND	ND	ND
2-naphthylamine	91-59-8	mg/kg	5	ND	ND	ND
o-aminoazotoluene	97-56-3	mg/kg	5	ND	ND	ND
5-nitro-o-toluidine /	99-55-8	mg/kg	5	ND	ND	ND
2-Amino-4-nitrotoluene						
4-chloroaniline	106-47-8	mg/kg	5	ND	ND	ND
4-methoxy-m-phenylenediamine	615-05-4	mg/kg	5	ND	ND	ND
/ 2,4-Diaminoanisole						
4,4'-diaminodiphenylmethane,	101-77-9	mg/kg	5	ND	ND	ND
MDA						
3,3'-dichlorobenzidine	91-94-1	mg/kg	5	ND	ND	ND
3,3'-dimethoxybenzidine	119-90-4	mg/kg	5	ND	ND	ND
3,3'-dimethylbenzidine	119-93-7	mg/kg	5	ND	ND	ND
4,4'-methylenedi-o-toluidine/3,3'-	838-88-0	mg/kg	5	ND	ND	ND
Dimethyl-4,4'-diaminodiphenylm						
p-cresidine						
ethane	120-71-8	mg/kg	5	ND	ND	ND
4,4'-methylene-bis-	101-14-4	mg/kg	5	ND	ND	ND
(2-chloroaniline)						
4,4'-oxydianiline	101-80-4	mg/kg	5	ND	ND	ND
4,4'-thiodianiline	139-65-1	mg/kg	5	ND	ND	ND
o-toluidine	95-53-4	mg/kg	5	ND	ND	ND
4-methyl-m-phenylenediamine /	95-80-7	mg/kg	5	ND	ND	ND
2,4-Toluyldiamine, TDA						
2,4,5-trimethylaniline	137-17-7	mg/kg	5	ND	ND	ND
4-aminoazobenzene	60-09-3	mg/kg	5	ND	ND	ND
O-Anisidine	90-04-0	mg/kg	5	ND	ND	ND



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Azo Dyes(Colorant extraction approach)

Test Method : According to EN ISO 14362-1:2017, analysis was performed by GC-MS/ HPLC-DAD.
Determination of 4-aminoazobenzene (CAS No.:60-09-3) – EN ISO 14362-3:2017, analysis was performed by GC-MS/ HPLC-DAD.

<u>Test Item(s)</u>	<u>CAS NO.</u>	<u>Unit</u>	<u>MDL</u>	<u>6</u>	<u>7</u>	<u>8</u>
4-Aminobiphenyl	92-67-1	mg/kg	5	ND	ND	ND
Benzidine	92-87-5	mg/kg	5	ND	ND	ND
4-chloro-o-toluidine	95-69-2	mg/kg	5	ND	ND	ND
2-naphthylamine	91-59-8	mg/kg	5	ND	ND	ND
o-aminoazotoluene	97-56-3	mg/kg	5	ND	ND	ND
5-nitro-o-toluidine /	99-55-8	mg/kg	5	ND	ND	ND
2-Amino-4-nitrotoluene						
4-chloroaniline	106-47-8	mg/kg	5	ND	ND	ND
4-methoxy-m-phenylenediamine	615-05-4	mg/kg	5	ND	ND	ND
/ 2,4-Diaminoanisole						
4,4'-diaminodiphenylmethane,	101-77-9	mg/kg	5	ND	ND	ND
MDA						
3,3'-dichlorobenzidine	91-94-1	mg/kg	5	ND	ND	ND
3,3'-dimethoxybenzidine	119-90-4	mg/kg	5	ND	ND	ND
3,3'-dimethylbenzidine	119-93-7	mg/kg	5	ND	ND	ND
4,4'-methylenedi-o-toluidine/3,3'-	838-88-0	mg/kg	5	ND	ND	ND
Dimethyl-4,4'-diaminodiphenylm						
p-cresidine						
ethane	120-71-8	mg/kg	5	ND	ND	ND
4,4'-methylene-bis-	101-14-4	mg/kg	5	ND	ND	ND
(2-chloroaniline)						
4,4'-oxydianiline	101-80-4	mg/kg	5	ND	ND	ND
4,4'-thiodianiline	139-65-1	mg/kg	5	ND	ND	ND
o-toluidine	95-53-4	mg/kg	5	ND	ND	ND
4-methyl-m-phenylenediamine /	95-80-7	mg/kg	5	ND	ND	ND
2,4-Toluyldiamine, TDA						
2,4,5-trimethylaniline	137-17-7	mg/kg	5	ND	ND	ND
4-aminoazobenzene	60-09-3	mg/kg	5	ND	ND	ND
O-Anisidine	90-04-0	mg/kg	5	ND	ND	ND



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Test Method : According to EN ISO 14362-1:2017, analysis was performed by GC-MS/ HPLC-DAD.
Determination of 4-aminoazobenzene (CAS No.:60-09-3) – EN ISO 14362-3:2017, analysis was performed by GC-MS/ HPLC-DAD.

<u>Test Item(s)</u>	<u>CAS NO.</u>	<u>Unit</u>	<u>MDL</u>	<u>9</u>	<u>10</u>
4-Aminobiphenyl	92-67-1	mg/kg	5	ND	ND
Benzidine	92-87-5	mg/kg	5	ND	ND
4-chloro-o-toluidine	95-69-2	mg/kg	5	ND	ND
2-naphthylamine	91-59-8	mg/kg	5	ND	ND
o-aminoazotoluene	97-56-3	mg/kg	5	ND	ND
5-nitro-o-toluidine / 2-Amino-4-nitrotoluene	99-55-8	mg/kg	5	ND	ND
4-chloroaniline	106-47-8	mg/kg	5	ND	ND
4-methoxy-m-phenylenediamine / 2,4-Diaminoanisole	615-05-4	mg/kg	5	ND	ND
4,4'-diaminodiphenylmethane, MDA	101-77-9	mg/kg	5	ND	ND
3,3'-dichlorobenzidine	91-94-1	mg/kg	5	ND	ND
3,3'-dimethoxybenzidine	119-90-4	mg/kg	5	ND	ND
3,3'-dimethylbenzidine	119-93-7	mg/kg	5	ND	ND
4,4'-methylenedi-o-toluidine/3,3'- Dimethyl-4,4'-diaminodiphenylm p-cresidine	838-88-0	mg/kg	5	ND	ND
ethane	120-71-8	mg/kg	5	ND	ND
4,4'-methylene-bis- (2-chloroaniline)	101-14-4	mg/kg	5	ND	ND
4,4'-oxydianiline	101-80-4	mg/kg	5	ND	ND
4,4'-thiodianiline	139-65-1	mg/kg	5	ND	ND
o-toluidine	95-53-4	mg/kg	5	ND	ND
4-methyl-m-phenylenediamine / 2,4-Toluyldiamine, TDA	95-80-7	mg/kg	5	ND	ND
2,4,5-trimethylaniline	137-17-7	mg/kg	5	ND	ND
4-aminoazobenzene	60-09-3	mg/kg	5	ND	ND
O-Anisidine	90-04-0	mg/kg	5	ND	ND



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Notes :

RL (Reporting limit): 5 mg/kg (for individual compound)

ND = Not Detected (< RL)

1. Direct reduction (Method A) refers to the extraction and reduction according to EN ISO 14362-1:2017 clause 10.2 and relevant clauses. Colorant extraction (Method B) refers to the colourant extraction and subsequent reduction according to EN ISO 14362-1:2017 Clause 10.1 and relevant clauses.

2. 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.

3. 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.

4. 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 "ND" (i.e. < 5.0 mg/kg). Otherwise, EN ISO 14362-3:2017 will be employed to verify the presence of 4-AAB.



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Sample Photo



Sample Photo



End of Report



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