

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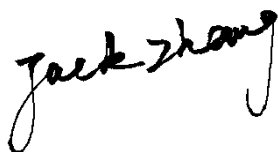
The following sample(s) was/were submitted and identified on behalf of the client as:

Sample Description : (A)Woven fabric  
Composition : (A)70% PVC 30% POLYESTER  
Color : (A)1015-4 LIGHT  
Order No. : PO#005330 of PI#19ABC1101  
Country of Origin : China  
Sample Receiving Date : Dec 10, 2019  
Testing Period : Dec 12, 2019 - Dec 16, 2019  
Test Result(s) : For further details, please refer to the following page(s).  
Test Performed : Selected test(s) as requested by applicant

|            |   |        |
|------------|---|--------|
| Conclusion | A | Remark |
| Azo Dyes   | M |        |

Remark(s) : M=Meet General Requirement

Signed for and on behalf of  
SGS-CSTC Standards Technical  
Services Co., Ltd. HangZhou Branch



Jack Zhang (Account Executive)



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Test Result

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

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

| Test Item(s)                          | CAS NO.  | Result                        |                                  |
|---------------------------------------|----------|-------------------------------|----------------------------------|
|                                       |          | Direct reduction <sup>+</sup> | Colorant extraction <sup>+</sup> |
| 4-methyl-m-phenylenediamine /         | 95-80-7  | ND                            | ND                               |
| 2,4-Toluylendiamine                   |          |                               |                                  |
| 2,4,5-Trimethylaniline                | 137-17-7 | ND                            | ND                               |
| 4-methoxy-m-phenylenediamine /        | 615-05-4 | ND                            | ND                               |
| 2,4-Diaminoanisole                    |          |                               |                                  |
| 5-nitro-o-toluidine /                 | 99-55-8  | ND                            | ND                               |
| 2-Amino-4-nitrotoluene                |          |                               |                                  |
| 2-Naphthylamine                       | 91-59-8  | 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'-Oxydianiline                     | 101-80-4 | ND                            | ND                               |
| 4,4'-Thiodianiline                    | 139-65-1 | ND                            | ND                               |
| 4,4'-Diaminodiphenylmethane           | 101-77-9 | ND                            | ND                               |
| 4,4'-Methylene-bis-(2-chloroaniline)  | 101-14-4 | ND                            | ND                               |
| 4,4'-methylenedi-o-toluidine /        | 838-88-0 | ND                            | ND                               |
| 3,3'-Dimethyl-4,4'-diaminodiphenylmet |          |                               |                                  |
| hane                                  |          |                               |                                  |
| 4-aminoazobenzene                     | 60-09-3  | ND                            | ND                               |
| 4-Aminodiphenyl                       | 92-67-1  | ND                            | ND                               |
| 4-Chloroaniline                       | 106-47-8 | ND                            | ND                               |
| 4-Chloro-o-toluidine                  | 95-69-2  | ND                            | ND                               |
| Benzidine                             | 92-87-5  | ND                            | ND                               |
| o-Aminoazotoluene                     | 97-56-3  | ND                            | ND                               |
| O-Anisidine                           | 90-04-0  | ND                            | ND                               |
| o-Toluidine                           | 95-53-4  | ND                            | ND                               |
| p-Cresidine                           | 120-71-8 | ND                            | ND                               |
| <b>Conclusion</b>                     |          | <b>Pass</b>                   | <b>Pass</b>                      |



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## Notes :

ND = Not Detected

Reporting Limit = 5.0 mg/kg

**Max. Limit : 30 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 ISO 14362-3:2017 will be employed to verify the presence of 4-aminoazobenzene.

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

## Remarks :

1 mg/kg = 0.0001%

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



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