

Test Report No.: 0154097195a 001

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Client: SHANGHAI XM GROUP LTD

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Contact Person: Anna He

Sample Description As Declared :

No. Of Sample : One (1)
Sample Description : Econom-245 TC 65/35 245gsm twill 3/1, Navy

Sample Receiving date: 2015-04-28

Delivery condition: Apparent good, Samples tested as received

Test Period: 2015-04-28 to 2015-05-04

For and on behalf of
TÜV Rheinland (Shanghai) Co., Ltd.



2015-05-04

Tina Wu / Department Manager

Date

Name/Position

Test result is drawn according to the kind and extent of tests performed.

This test report relates to the a. m. test sample. Without permission of the test center this test report is not permitted to be duplicated in extracts. This test report does not entitle to carry any safety mark on this or similar products.

Conclusion

Banned Azo Dyes (1907/2006/EC)

M001
P

Note : P = Pass
= No Comment
N/A = Not Applicable

F = Fail
- = Did Not Perform
* = See Remark

Material list

| Material No. | Material | Color | Location |
|--------------|----------|-------|--------------|
| M001 | Textile | Navy | Woven fabric |

1. Banned Azo Dyes (1907/2006/EC)

Test Method: EN 14362-1:2012

Test Result:

| Test No. | Material No. | Method | Unit | RL | Test Result | Conclusion |
|----------|--------------|------------|-------|----|-------------|------------|
| 1 | M001 | EN 14362-1 | mg/kg | 5 | n.d. | Pass |

Abbreviation: n.d. = not detected (< Reporting Limit)
RL = Reporting Limit
mg/kg = milligram per kilogram

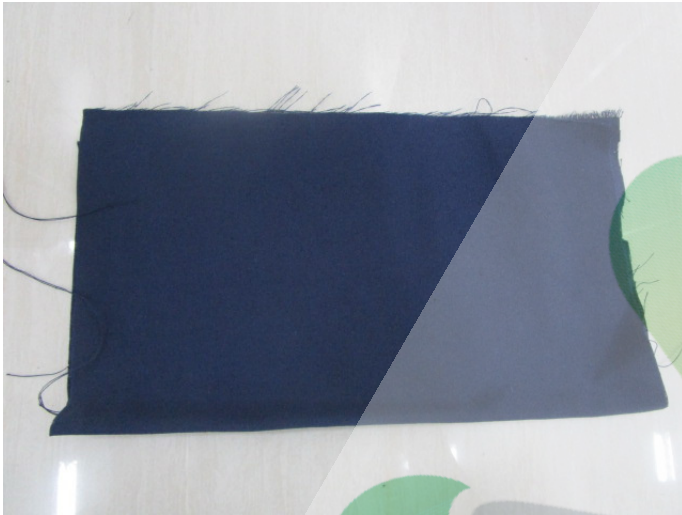
Remarks:

- * The CAS-number 97-56-3 (A5) and 99-55-8 (A6) are further reduced to CAS-number 95-53-4 (A18) and 95-80-7 (A19).
- ** Azo colorants that are able to form CAS-number 60-09-03 (A22), generate under the condition of this method CAS-number 62-53-3 (A25) and 106-50-3 (A26).
- *** Azo colorants that are able to form 4-aminoazobenzene (A22), is confirmed by EN 14362- 3:2012/ ISO 17234-2:2011.
- **** Azo colorants are detected & quantified by GC/MS and confirmed by LC/MS.
- ^ Additional azo colorants were tested according to customer's requirement.

List of azo colorants being tested:

| ID | Azo colorant | CAS No. | ID | Azo colorant | CAS No. |
|-----|---|----------|-------|--|----------|
| A1 | biphenyl-4-ylamine / 4-aminobiphenyl / xenylamine | 92-67-1 | A14 | p-cresidine | 120-71-8 |
| A2 | benzidine | 92-87-5 | A15 | 4,4'-methylene-bis-(2-chloro-aniline) / 2,2'-dichloro-4,4'-methylene-dianiline | 101-14-4 |
| A3 | 4-chloro-o-toluidine | 95-69-2 | A16 | 4,4'-oxydianiline | 101-80-4 |
| A4 | 2-naphthylamine | 91-59-8 | A17 | 4,4'-thiodianiline | 139-65-1 |
| A5* | o-aminoazotoluene / 4-amino-2',3'-dimethylazobenzene / 4-o-tolylazo-o-toluidine | 97-56-3 | A18 | o-toluidine / 2-aminotoluene | 95-53-4 |
| A6* | 5-nitro-o-toluidine | 99-55-8 | A19 | 4-methyl-m-phenylenediamine | 95-80-7 |
| A7 | 4-chloroaniline | 106-47-8 | A20 | 2,4,5-trimethylaniline | 137-17-7 |
| A8 | 4-methoxy-m-phenylenediamine | 615-05-4 | A21 | o-anisidine / 2-methoxyaniline | 90-04-0 |
| A9 | 4,4'-methylenedianiline / 4,4'-diaminodiphenylmethane | 101-77-9 | A22** | 4-aminoazobenzene | 60-09-3 |
| A10 | 3,3'-dichlorobenzidine / 3,3'-dichlorobiphenyl-4,4'-ylenediamine | 91-94-1 | A23^ | 2,4-xylidine | 95-68-1 |
| A11 | 3,3'-dimethoxybenzidine | 119-90-4 | A24^ | 2,6-xylidine | 87-62-7 |
| A12 | 3,3'-dimethylbenzidine / 4,4'-bi-o-toluidine | 119-93-7 | A25^ | Aniline | 62-53-3 |
| A13 | 4,4'-methylenedi-o-toluidine | 838-88-0 | A26^ | 4-aminoaniline | 106-50-3 |

Sample Photo:



- END -