



Eco-210

65% RECYCLED POLYESTER /
35% RECYCLED COTTON /
210 GSM / TWILL 2/1



| | |
|---------------------|---|
| Fabric name | Eco-210 |
| Fabric weight | 210 ± 5 gsm |
| Composition | 65% Recycled Polyester, 35% Recycled Cotton |
| Full width | 152 ± 2 cm |
| Weave | twill 2/1 |
| Finishes | WR |
| Area of use | construction and transport sectors work wear |
| Washing instruction | |

Physical properties*

| | | | warp | weft | |
|---|---|------------------|------------------|------|--|
| 1 | Tensile strength, N | ISO 13934-1:2013 | 1600 | 360 | |
| 2 | Tearing strength, N | ISO 13937-3:2000 | 30 | 20 | |
| 3 | Dimensional Stability To Washing, max. | ISO 6330:2000 | 3.0% | 3.0% | |
| 4 | Abrasion Resistance | ISO 12947-2:2002 | > 30 000 | | |
| 5 | Pilling Resistance (after 1000 rev.) | ISO 12945-2:2000 | 3-4 | | |
| 6 | Colour Fastness To Washing (cotton+polyester) 60°C, min. | ISO 105-C06:2010 | | | |
| | | Colour change | ISO 105-C06:2010 | 4 | |
| | | Colour staining | ISO 105-C06:2010 | 3 | |
| 7 | Colour Fastness To Perspiration, min. | ISO 105-E04:2013 | | | |
| | | Colour change | | 4 | |
| | | Colour staining | | 4 | |
| 8 | Colour Fastness To Rubbing, min. | ISO 105-X12:2001 | | | |
| | | Dry | | 3-4 | |
| | | Wet | | 2-3 | |
| 9 | Colour Fastness To Light | ISO 105-B02:2013 | > 4 | | |

* The values shown are indicative and may vary slightly from batch to batch.

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Test Report No.: 0154096991a 001

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Client: SHANGHAI XM GROUP LTD

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Zhongshan North Road, Shanghai, China

Contact Person: Anna He

Sample Description As Declared :

No. Of Sample : One (1)
Sample Description : Econom-210TC 70/30 210gsm twill 2/1, Navy

**Applicant's Provided
Care Instruction/Label:**



Sample Receiving date: 2015-04-28
Delivery condition: Apparent good, Samples tested as received
Test Period: 2015-04-28 to 2015-05-05

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



2015-05-05 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

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

Test Method: EN 14362-1:2012

Test Result:

| Test No. | Material No. | Method | Unit | RL | Customer requirement | Test Result | Conclusion |
|----------|--------------|------------|-------|----|----------------------|-------------|------------|
| 1 | M001 | EN 14362-1 | mg/kg | 5 | 30 | A11: 6 | Pass |

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

Remark:

- * 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.

List of azo colorants being tested (according to REACH regulation (EC) No. 1907/2006 and amendment no. 552/2009 Annex XVII Item 43 (formerly known as 2002/61/EC)):

| ID | Azo colorant | CAS No. |
|-------|--|----------|
| A1 | biphenyl-4-ylamine / 4-aminobiphenyl / xenylamine | 92-67-1 |
| A2 | benzidine | 92-87-5 |
| A3 | 4-chloro-o-toluidine | 95-69-2 |
| A4 | 2-naphthylamine | 91-59-8 |
| A5* | o-aminoazotoluene / 4-amino-2',3-dimethylazobenzene / 4-o-tolylazo-o-toluidine | 97-56-3 |
| A6* | 5-nitro-o-toluidine | 99-55-8 |
| A7 | 4-chloroaniline | 106-47-8 |
| A8 | 4-methoxy-m-phenylenediamine | 615-05-4 |
| A9 | 4,4'-methylenedianiline / 4,4'-diaminodiphenylmethane | 101-77-9 |
| A10 | 3,3'-dichlorobenzidine / 3,3'-dichlorobiphenyl-4,4'-ylenediamine | 91-94-1 |
| A11 | 3,3'-dimethoxybenzidine | 119-90-4 |
| A12 | 3,3'-dimethylbenzidine / 4,4'-bi-o-toluidine | 119-93-7 |
| A13 | 4,4'-methylenedi-o-toluidine | 838-88-0 |
| A14 | p-cresidine | 120-71-8 |
| A15 | 4,4'-methylene-bis-(2-chloro-aniline) / 2,2'-dichloro-4,4'-methylene-dianiline | 101-14-4 |
| A16 | 4,4'-oxydianiline | 101-80-4 |
| A17 | 4,4'-thiodianiline | 139-65-1 |
| A18 | o-toluidine / 2-aminotoluene | 95-53-4 |
| A19 | 4-methyl-m-phenylenediamine | 95-80-7 |
| A20 | 2,4,5-trimethylaniline | 137-17-7 |
| A21 | o-anisidine / 2-methoxyaniline | 90-04-0 |
| A22** | 4-aminoazobenzene | 60-09-03 |
| A25 | aniline | 62-53-3 |
| A26 | 4-aminoaniline | 106-50-3 |

Sample Photo:



- END -