

**REPORT #:** PTTF/48862/24

**DATED:** 26-04-2024

**PTTF JOB #:** 1221048/1-2

**SAMPLE #:** 57117

**SUBMITTED BY:** 012619

**ADDRESS:** XXXXX

**ATTN:** XXXXX

**SAMPLE(S) DESCRIPTION IDENTIFIED BY THE CLIENT AS:**

**DATE RECEIVED:** 22-04-2024

**TEST END DATE:** 26-04-2024

**SAMPLE DESCRIPTION** WOVEN REACTIVE DYED TWILL FABRIC

**COLOUR:** NAVY

**QUALITY:** POLY/COTTON

**GSM:** 180

**COUNTRY OF ORIGIN:** PAKISTAN

**SUPPLIER'S CODE:** 012619

**MANAGER OPERATIONS**

PAKISTAN TEXTILE TESTING FOUNDATION (PTTF)

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| TESTS | RESULTS |
|-------|---------|
|-------|---------|

**1. LEAD CONTENTS**  
**REACH ANNEX XVII**

HEAVY METALS

Total acid digestion with HNO<sub>3</sub>/HCL analyzed performed by ICP-OES/AAS

Component: Fabric Swatch

MDL

10 ppm

Results

N.D

MDL: Method Detection Limit.

**2. CADMIUM**  
**REACH ANNEX XVII**

HEAVY METALS

Total acid digestion with HNO<sub>3</sub>/HCL analyzed performed by ICP-OES/AAS

Component: Fabric Swatch

MDL

10 ppm

Results

N.D

MDL: Method Detection Limit.

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**TEST REPORT**
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**TESTS**
**RESULTS**
**3. Aromatic Amines Derived from Azo Colorants  
REACH ANNEX XVII**

 Detection & Determination of Certain Listed Aromatic Amines Derived from Azo Colorants  
 Analysis was conducted with GC-MS & confirmed with HPLC-DAD without extraction

| Sr. # | Amines                                             | CAS No.   | Results |
|-------|----------------------------------------------------|-----------|---------|
| 1.    | 4-aminodiphenyl                                    | 92-67-1   | n.d     |
| 2.    | Benzidine                                          | 92-87-5   | n.d     |
| 3.    | 4-Chlor-o-toluidine                                | 95-69-2   | n.d     |
| 4.    | 2-naphthylamine                                    | 91-59-8   | n.d     |
| 5.    | o-aminotoluene                                     | 97-56-3   | n.d     |
| 6.    | 5-nitro-O-toluidine                                | 99-55-8   | n.d     |
| 7.    | 4-Chloroaniline                                    | 106-47-8  | n.d     |
| 8.    | 4-Methoxy-m-phenylenediamine / 2,4'-diaminoanisole | 615-05-04 | n.d     |
| 9.    | 4,4'-diaminodiphenylmethane                        | 101-77-9  | n.d     |
| 10.   | 3,3'-Dichlorobenzidine                             | 91-94-1   | n.d     |
| 11.   | 3,3'-dimethoxybenzidine                            | 119-90-4  | n.d     |
| 12.   | 3,3'-Dimethylbenzidine                             | 119-93-7  | n.d     |
| 13.   | 4,4'-methylenedi-o-toluidine                       | 838-88-0  | n.d     |
| 14.   | p-cresidine                                        | 120-71-8  | n.d     |
| 15.   | 4,4'-methlen-bis-(2-chloro-aniline)                | 101-14-4  | n.d     |
| 16.   | 4,4'-oxydianiline                                  | 101-80-4  | n.d     |
| 17.   | 4,4'-thiodianiline                                 | 139-65-1  | n.d     |
| 18.   | o-toluidine                                        | 95-53-4   | n.d     |
| 19.   | 4-methyl-m-phenylenediamine                        | 95-80-7   | n.d     |
| 20.   | 2,4,5-Trimethylaniline                             | 137-17-7  | n.d     |
| 21.   | o-Anisidine                                        | 90-04-0   | n.d     |
| 22.   | 4-aminoazobenzene                                  | 60-09-3   | n.d     |
| 23.   | 2,4-Dimethylaniline / 2,4-xylydine                 | 95-68-1   | n.d     |
| 24.   | 2,6-Dimethylaniline / 2,6-xylydine                 | 87-62-7   | n.d     |
| 25.   | Aniline                                            | 62-53-3   | n.d     |
| 26.   | 1,4 phenylenediamine                               | 106-50-3  | n.d     |

**Component Tested:** (FABRIC)

**Conclusion:** Pass

Within the scope of the above mentioned test, no evidence was found of the presence in the submitted sample specified above of any Azo Dye or Pigment that is forbidden.

**Abbreviations:**

n.d: Note Detected (&lt;Method Detection Limit: 5ppm / mg/kg)

Mg/Kg: milligram per kilogram

ppm: Parts per million

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**4. DETERMINATION OF FORMALDEHYDE  
ISO 14184-1 :2011**

Part 1: Free and hydrolyzed formaldehyde (water extraction method).

Analysis was conducted with UV/VIS Spectrophotometer.

FORMALDEHYDE CONCENTRATION

21.3 ppm

Note:

n.d - not detectable

Detection Limit = 16 ppm

**(Measurement of Uncertainty Will be Provided on Client Request)**

(\*) Test not covered by accreditation scope.

\*\*\*END OF REPORT\*\*\*

**MANAGER OPERATIONS**

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Fax: +92-41-9201733 E-mail:info@pttflab.com URL: www.pttflab.com**



03



10



04



06



07



23328.05



01



10



03



06



07



04



23327.05



23003.05



02



14



03



24



11471.05



02



01



03



14



04



16429.05



22



04



14



01



02



03



08



18427.05

\*\*\*END OF REPORT\*\*\*