



EKOTEKS

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Test
TS EN ISO/IEC 17025
AB-0583-T

EKOTEKS LABORATUVAR ve GÖZETİM
HİZMETLERİ A.Ş.

Esenyurt Firuzköy Bulvarı No:29 34325 Avcılar
İstanbul/ TÜRKİYE

TEST REPORT
DENEY RAPORU

AB-0583-T

18007595

02-18

Customer name: ARMAN TEKNİK TEKSTİL DOKUMA SAN. TİC. A.Ş.
Address: ORGANİZE SANAYİ BÖLGESİ 3.KISIM 31. CADDE NO:7
DOSEMEALTI / ANTALYA
Buyer name: -
Contact Person: BELEMİR NAZLI KIRMAN
Order No: -
Article No: -
Name and identity of test item: **Sample 1:**One sample of white woven terry woven fabric.
(Pamuk/Polyester Havlu Parçası)
Sample 2:One sample of white woven fabric.
(100% Cotton ,120 Tel Düz Kumaş)
The date of receipt of test item: 22.02.2018
Re-submitted/re-confirmation date: -
Date of test: 22.02.2018-26.02.2018
Remarks: -
Sampling: The results given in this report belong to the received sample by vendor.
End-Use: Terry / Fabric
Care Label: Not specified.
Number of pages of the report: 4

The Turkish Accreditation Agency (TURKAK) is signatory to the multilateral agreements of the European co-operation for the Accreditation (EA) and of the International Laboratory Accreditation (ILAC) for the Mutual recognition of test reports.

The test and/or measurement results, the uncertainties (if applicable) with confidence probability and test methods are given on the following pages which are part of this report.

Seal

Date
26.02.2018

Customer Representative
Hatice ACARALP

Head of Testing Laboratory
Sevim A. RAZAK

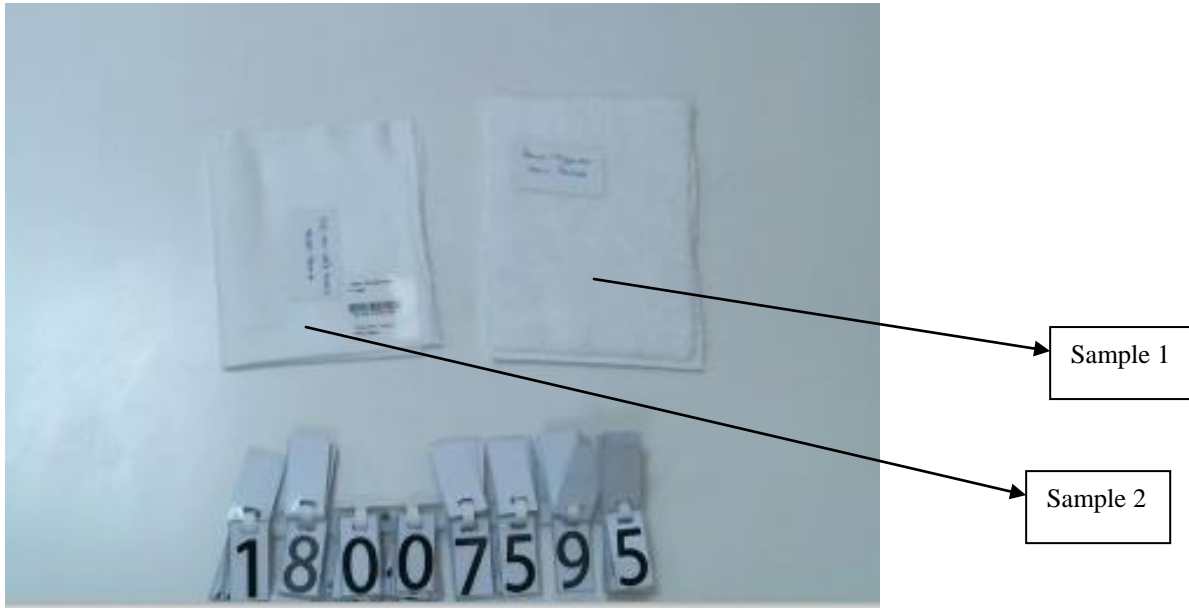
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REQUIRED TESTS	RESULT	COMMENTS
ECOLOGICAL TESTS/Sample 1&2		
Forbidden Arylamines In Dyestuff	P	
P: Pass F: Fail R: Refer to retailer technologist.		
These tests results were evaluated according to EU directive 2002/61 EC limit values.		

REMARK: Original samples are kept for 3 months and all technical records are kept for 5 years unless otherwise specified. The reported uncertainty is based on a standard uncertainty multiplied by a coverage factor k=2, providing a level of confidence of approximately 95 %. Tests marked (*) in this report are not included in the accreditation schedule.



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TEST RESULTS

FORBIDDEN AROMATIC ARYLAMINES-MAK III GROUP A1&A2 CATEGORY

Corresponding to the Ordinance on Commodities (Bedarfsgegenständeverordnung) be in force respectively the directive 2002/61/EEC the use of certain azo colorants is banned, which can release by reductive cleavage of their azo group(s) one or more of certain listed aromatic and cancerogenic amines.

Arylamines of class MAK III A1/ A2 are determined and quantified using a Gas Chromatography / Mass Selective Detector (GC/MSD)

List of arylamines, that are not allowed to be split off from dyes under reductive conditions ;

Nr	Substances	CAS No	Index No	EC number
	MAK III A1			
01	4-Aminobiphenyl	92-67-1	612-072-00-6	202-177-1
02	Benzidine	92-87-5	612-042-00-2	202-199-1
03	4-Chloro-o-toluidine	95-69-2		202-441-6
04	2-Naphthylamine (-Naphthylamine)	91-59-8	612-022-00-3	202-080-4
	MAK III A2			
05*	o-Aminoazotoluol (4-amino-2,3-dimethylazobenzene)	97-56-3	611-006-00-3	202-591-2
06	p-Chloroaniline (4-chloroaniline)	106-47-8	612-137-00-9	203-401-0
07	2,4-Diaminoanisole (4-Methoxy-m-phenylenediamine)	615-05-4		210-406-1
08	4,4'-Diaminodiphenylmethane (4,4'-methylendianiline)	101-77-9	612-051-00-1	202-974-4
09	3,3'-Dichlorbenzidine (3,3'-dichlorobiphenyl-4,4'-xylendiamine)	91-94-1	612-068-00-4	202-109-0
10	3,3'-Dimethoxybenzidine (o-Dianisidine)	119-90-4	612-036-00-X	204-355-4
11	3,3'-Dimethylbenzidine (o-Tolidine) (4,4'-bi-o-toluidine)	119-93-7	612-041-00-7	204-358-0
12	3,3'-Dimethyl-4,4'-diaminodiphenylmethane (4,4'-methylene di-o-toluidine)	838-88-0	612-085-00-7	212-658-8
13	4,4'-Methylene-bis-(2-chloro-aniline) (2,2'-dichloro-4,4'-methylendianiline)	101-14-4	612-078-00-9	202-918-9
14*	2-Amino-4-nitrotoluene (5-nitro-o-toluidine)	99-55-8		202-765-8
15	4,4'-Oxydianiline (4,4'-Diaminodiphenylether)	101-80-4		202-977-0
16	4,4'-Thiodianiline (4,4'-Diaminodiphenylsulfide)	139-65-1		205-370-9
17	o-Toluidine (2-aminotoluene)	95-53-4	612-091-00-X	202-429-0
18	4-Methyl-1,3-phenylenediamin (4-methyl-m-phenylenediamin) (2,4-Toluenediamine)	95-80-7	612-099-00-3	202-453-1
19	2,4,5-Trimethylaniline	137-17-7		205-282-0
20	o-Anisidine (2-Methoxyaniline)	90-04-0	612-035-00-4	201-963-1
21	2-Methoxy-5-methylaniline (p-Cresidine) (6-methoxy-m-toluidine)	120-71-8		204-419-1
22**	4-Amino Azobenzene	60-09-3	611-008-00-4	200-453-6
23***	2,4-Xylidine	95-68-1		
24***	2,6-Xylidine	87-62-7		

* The CAS-numbers 97-56-3 (No. 5) and 99-55-8 (No. 14) are detected further reduced to CAS-numbers 95-53-4 (No. 17) and 95-80-7 (No. 18).

** Azo colorants that are able to form 4-aminoazobenzene (CAS no:60-09-3) , generate under the condition of the below mentioned methods aniline and 1,4-phenylenediamine.

Therefore, the 64 LFGB 82.02-9 official test method used for the determination of 4-aminoazobenzene was modified in 2014.

*** Not regulated by law

Note: In case the sample was a blend of coloured synthetic material with further coloured fibers several test methods were carried out if necessary.

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TEST RESULTS

Component Name	Test Method	Forbidden Arylamines in Dyestuff Results	Conclusion
Sample 1+Sample 2	DIN EN ISO 14362-1:2017 (with extraction)	ND ⁽¹⁾	Pass
Sample 1	DIN EN ISO 14362-1:2017 (without extraction)	ND ⁽¹⁾	Pass

Max. limit specified by EU directive 2002/61 EC requirement=30 ppm (individual).

Interpretation:

⁽¹⁾ N.D.: Not detected according to the analysis as carried out, azo colourants banned under the Ordinance on Commodities were not detected in the article submitted.

LS.: Lack of sample.

NA: Not applicable.

"<" = less than

0 = Test not necessary (commodity not coloured or printed)

mg/kg = milligram per kilogram

ppm= part per million (mg/kg)

with extraction: Extraction method was applied.

without extraction: Extraction method was not applied.

Note : If an arylamine is listed in the test table, this means; The analytical result suggest that the commodity submitted has been manufactured or treated using azo colourant(s) which can release one or more of certain listed amines by cleavage of their azo group(s).

can release one or more of certain listed amines by cleavage of their azo group(s).