



EKOTEKS

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

EKOTEKS LABORATUVAR ve GÖZETİM
HİZMETLERİ LTD. ŞTİ

Esenyurt Firuzköy Bulvarı No:29 34325 Avcılar
İstanbul/ TÜRKİYE

TEST REPORT
DENEY RAPORU

AB-0583-T
14160708
05-14

Customer name: AS ERDOĞAN DERİ SAN. TİC. LTD. ŞTİ.
Address: Merkez Mah. Remzi Özkaya Sok. No:10 Yenibosna/ Bahçelievler-İSTANBUL
Buyer name: -
Contact Person: ELİF CANDOĞAN
Order No: -
Article No: -
Name and identity of test item: One sample of brown leather panel with cream furry part on front
The date of receipt of test item: 25.04.2014
Date of test: 25.04.2014 – 05.05.2014
Remarks: -
Sampling: The results given in this report belong to the received sample by vendor.
End-Use: Not specified
Care Label: -
Number of pages of the report: 7

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
05.05.2014

Person in charge of test
Şafak AKDENİZ

Head of Testing Laboratory
Sevim A. RAZAK

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REQUIRED TESTS	RESULT	COMMENTS
ECOLOGICAL TEST		
Heavy Metal	P	
Chlorphenols	P	
Chromium VI	P	
Formaldehyde	P	
Total Lead Content	P	
Determination of Phthalates	P	
Forbidden Arylamines In Dyestuff	P	
P: Pass F: Fail R: Refer to retailer technologist. Requirements were given by vendor.		

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

HEAVY METAL; DIN 54233-3:2010

Extractable heavy metals are extracted at 40°C in artificial acidic perspiration solution (pH=5.5) and determined using ICP-MS. (DIN 38406-E29 and ISO 54233-3)

	<u>RESULT</u>	<u>REQUIREMENT</u>
Arsenic (As)	N.D. ⁽¹⁾	< 100 mg/kg
Cadmium (Cd)	N.D. ⁽¹⁾	< 100 mg/kg
Mercury (Hg)	N.D. ⁽¹⁾	< 100 mg/kg
Nickel (Ni)	N.D. ⁽¹⁾	< 100 mg/kg
Antimony (Sb)	N.D. ⁽¹⁾	< 100 mg/kg
N.D. ⁽¹⁾ : Not detected		

CHLORPHENOLS; ISO 17070:2006

Sample is extracted with acetone then esterificated with acidanhydrite and determined using a GC/MS. In reference to DIN 53313 and § 35 LMBG 82.02-8:2001.

	<u>RESULT</u>	<u>REQUIREMENT</u>
Total Trichlorphenol	N.D. ⁽¹⁾	< 0.5 mg/kg
Total Tetrachlorphenol	N.D. ⁽¹⁾	< 0.5 mg/kg
Pentachlorphenol	N.D. ⁽¹⁾	< 0.5 mg/kg

Chlorphenol Standards	CAS No.	Result
2,3,4-Trichlorphenol	15950-66-0	N.D. ⁽¹⁾
2,3,5-Trichlorphenol	933-78-8	N.D. ⁽¹⁾
2,3,6-Trichlorphenol	933-75-5	N.D. ⁽¹⁾
2,4,5-Trichlorphenol	95-95-4	N.D. ⁽¹⁾
2,4,6-Trichlorphenol	88-06-2	N.D. ⁽¹⁾
3,4,5-Trichlorphenol	609-19-8	N.D. ⁽¹⁾
2,3,4,5-Tetrachlorphenol	4901-51-3	N.D. ⁽¹⁾
2,3,4,6-Tetrachlorphenol	58-90-2	N.D. ⁽¹⁾
2,3,5,6-Tetrachlorphenol	935-95-5	N.D. ⁽¹⁾
12C ₆ -Pentachlorphenol	87-86-5	N.D. ⁽¹⁾

N.D.⁽¹⁾: Not detected

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TEST RESULTS

CHROMIUM VI; ISO 17075-2007 (*)

The sample is extracted with buffer solution. Measured by using UV-VIS Specrometer.

RESULT
N.D.⁽¹⁾

REQUIREMENT
< 3.0 mg/kg

⁽¹⁾ N.D.: Not detected

FORMALDEHYDE; ISO 17226-1:2008 (*)

The leather sample is eluted with detergent solution at 40°C .The eluate is treated with 2,4-dinitrophenylhydrazine, whereby formaldehyde reacts to give a yellow compound The amount of formaldehyde is detected at 360 nm and quantified using by HPLC.

RESULT
N.D.⁽¹⁾

REQUIREMENT
< 20 mg/kg

⁽¹⁾ N.D.: Not detected

TOTAL LEAD CONTENT; CPSC CH-E1002-08.3:2012

Sample is digested in microwave oven. After filtration, measured by using ICP-MS.

RESULT
N.D.⁽¹⁾

REQUIREMENT
< 90.0 mg/kg

⁽¹⁾ N.D.: Not detected

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TEST RESULTS

DETERMINATION OF PHTHALATES; EN 14372: 2004

Test sample is extracted in suitable organic solvent in extraction device.

The extract is analyzed by HPLC and result is given by GC/MS.

	<u>Cas No:</u>	<u>RESULT</u>	<u>REQUIREMENT</u>
DBP/ Dibutylphthalate	(84-74-2)	N.D. ⁽¹⁾	
BBP/ Butylbenzylphthalate	(85-68-7)	N.D. ⁽¹⁾	
DIDP/ Di-isodecylphthalate	(26761-40-0)/ (68515-49-1)	N.D. ⁽¹⁾	
DEHP/ Di-(2-ethylhexyl) phthalate	(117-81-7)	N.D. ⁽¹⁾	
DNOP/ Di-n-octylphthalate	(117-84-0)	N.D. ⁽¹⁾	
DINP/ Di-iso-nonylphthalate	(28553-12-0)/ (68515-48-0)	N.D. ⁽¹⁾	
DIBP/ Bis – iso –butyl phthalate	(84-69-5)	N.D. ⁽¹⁾	
DHP/Di-n-hexyl phthalate	(84-75-3)	N.D. ⁽¹⁾	
DIHP/Di-C6-8-branched alkyphthalates	(71888-89-6)	N.D. ⁽¹⁾	
DHNUP/Di-C7-11-branched alkyphthalates	(68515-42-4)	N.D. ⁽¹⁾	
DMEP/Di-(2-methoxyethyl) phthalate	(117-82-8)	N.D. ⁽¹⁾	
DPP/Di-pentylphthalate (n-, iso or mix)	(131-18-0; 605-50-5;776297-69-9; 84777-06-0)	N.D. ⁽¹⁾	
Total amount of phthalates		N.D. ⁽¹⁾	< 0.1 %

N.D. ⁽¹⁾: Not detected

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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-Diaminoaniline (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'-Dichlorobenzidine (3,3'-dichlorobiphenyl-4,4'-xylylenediamine)	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, generate under the condition of the below mentioned methods aniline and 1,4-phenylenediamine. For the detection of 4-aminoazobenzene the official testing methods are therefore modified.

Regarding 4-aminoazobenzene (Cas No: 60-09-3) : The official method is § 64 LFGB 82.02.9 September 2006 under consideration of the amendment § 64 LFGB 82.02.9 ,amendment April 2008

*** 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
Cream furry main	DIN EN 14362-1:2012 (without extraction)	ND ⁽¹⁾	Pass
Brown leather main	ISO 17234-1:2010	ND ⁽¹⁾	Pass

Max. limit specified according to vendor's requirement = 30 mg/kg (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)

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).