

TEST REPORT

REPORT NUMBER :

TURT180064230

APPLICANT NAME

Besa Plastik Suni Deri A.Ş.

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SAMPLE DESCRIPTION :

GENERAL INFORMATIONS
One sample of black artificial leather panel

DATE IN :

03 April, 2018 (09:03)

DATE OUT :

17 April, 2018

BUYER:

DEICHMANN

COLOR:

BLACK

APPLICANT REFERENCE :

-

DEICHMANN ARTICLE :

-

SHIPMENT DATE :

NOT GIVEN

FACTORY/SUPPLIER:

Besa Plastik Suni Deri A.Ş.

COUNTRY OF ORIGIN:

TURKEY

SAMPLE PHOTO :



TEST PACKAGE INFORMATIONS /RESULTS

RSL VERSION

FEBRUARY 2018

TEST PACKAGE

SELF REQUEST

CADS RESULT

PASS

DEICHMANN RESULT

PASS



Tuncay Maden
Customer Care Executive



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180064230

TESTED PARTS

Part 1	Black artificial leather panel
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Test Parameter	Evaluation		Grouping	Failed Component	Failed Result
	Deichmann Result	CADS Result			
Phenols Ethoxylates	PASS	PASS	(1)	--	--
Phenols Others	NR	PASS	(1)	--	--
Detection Of Amines Derived From Azocolourants and Azodyes	PASS	PASS	(1)	--	--
Determination of Dimethylfumarate Content	PASS	PASS	(1)	--	--
Formaldehyde Test	NR	PASS	(1)	--	--
Lead Content	PASS	NR	(1)	--	--
Cadmium Content	NR	PASS	(1)	--	--
Arsenic Content	PASS	NR	(1)	--	--
Determination of Odour	PASS	NR	Sample	--	--
Preserving Agents	NR	PASS	(1)	--	--
Determination of pH	NR	PASS	(1)	--	--
Organotin Compounds by Gas Chromatography – Mass Spectrometry (GC-MS) Analysis	NR	PASS	(1)	--	--
Phthalate Content	NR	PASS	(1)	--	--
Polycyclic Aromatic Hydrocarbons (PAH) in footwear	NR	PASS	(1)	--	--
VOC – Determination of Dimethylformamide Content (DMFA)	NR	PASS	(1)	--	--
VOC-Benzene	NR	PASS	(1)	--	--
VOC-Toluene	NR	PASS	(1)	--	--
Determination of Heavy Metals – Antimony	PASS	NR	(1)	--	--
Disperse Dyestuffs – Allergenic	NR	PASS	(1)	--	--
Dyestuffs – Carcinogenic	NR	PASS	(1)	--	--
Dyestuffs – Others	NR	PASS	(1)	--	--
Chlorinated Benzenes and Toluenes	NR	PASS	(1)	--	--

P = MEETS BUYER' S REQUIREMENT / F = DOES NOT MEET BUYER' S REQUIREMENT / NR = NO REQUIREMENT / SC=STILL CONTINUES / X=NOT PERFORMED / NA = NOT APPLICABLE/ LS : LACK OF SAMPLE

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Phenols Ethoxylates

BS EN ISO 18254-1:2016 Determination by liquid chromatography-Mass Spectrometry (LC-MS-MS) Analysis (Textile)
ISO 18218-1:2015 Determination by liquid chromatography-Mass Spectrometry (LC-MS-MS) Analysis (Leather)

Part 1	RESULT	DEICHMANN NEED LIMIT	CADS REQUIREMENT
Nonylphenoethoxylates (NPEO)	Not Detected	Not Detected	100 ppm
Octylphenoethoxylates (OPEO)	Not Detected	Not Detected	100 ppm

ppm = mg/kg

Detection limit = 1 ppm

Estimated Total Uncertainty=(±5%)

Phenols Others

BS EN ISO 18254-1:2016 Determination by liquid chromatography-Mass Spectrometry (LC-MS-MS) Analysis (Textile)
ISO 18218-1:2015 Determination by liquid chromatography-Mass Spectrometry (LC-MS-MS) Analysis (Leather)

Part: 1		
NAME	Result (ppm)	CADS LIMIT
Nonylphenols (NP)	Not Detected	30 ppm
Octylphenols (OP)	Not Detected	30 ppm
2,6-Dimethylphenol	Not Detected	50 ppm
p-Phenylphenol	Not Detected	50 ppm
Tribromohenol	Not Detected	50 ppm
Phenol	Not Detected	Not Detected

Detection limit = 1 ppm for NP,OP&30 ppm for others

ppm = mg/kg

Estimated Total Uncertainty=(±5%)

Detection Of Amines Derived From Azocolourants and Azodyes

Test Method : BS EN 14362 – 1 : 2012 for Textile Material

Determination of Certain aromatic Amines derived from azo colorants followed by GC- MS Analysis

Part 1

1) Black articial leather panel (combined method)

CADS
 <20 ppm
DEICHMANN
 PASS<10 ppm<NEED<20 ppm<FAIL

INTERPRETATION OF AZO-DYES TEST RESULTS:

<u>FORBIDDEN AMINE</u>	<u>CAS NO</u>	<u>1</u>
4-AMINOBIHENYL	92-67-1	N
BENZIDINE	92-87-5	N
CHLORO-O-4-CHLOR-O-TOLUIDINE	95-69-2	N
2-NAPHTHYLAMINE	91-59-8	N
*O-AMINOAZOTOLUENE	97-56-3	N
*2-AMINO-4-NITROTOLUENE	99-55-8	N
P-CHLOROANILINE	106-47-8	N
2,4-DIAMINOANISOLE	615-05-4	N
4,4'-DIAMINOBIHENYLMETHANE	101-77-9	N
3,3'-DICHLOBENZIDINE	91-94-1	N
3,3'-DIMETHOXYBENZIDINE	119-90-4	N
3,3'-DIMETHYLBENZIDINE	119-93-7	N
3,3'-DIMETHYL-4,4' DIAMINOBIHENYLMETHANE	838-88-0	N
P-CRESIDINE	120-71-8	N
4,4'-METHYLENE-BIS-(2 CHLOROANILINE)	101-14-4	N
4,4'-OXYDIANILINE	101-80-4	N
4,4'-THIODIANILINE	139-65-1	N
O-TOLUIDINE	95-53-4	N
2,4-TOLUENEDIAMINE	95-80-7	N
2,4,5-TRIMETHYLANILINE	137-17-7	N
O-ANISIDINE	90-04-0	N
**P-AMINOAZOBENZENE	60-09-3	N
2,4 XYLIDINE	95-68-1	N
2,6 XYLIDINE	87-62-7	N

Note:

- 1)The amines o-amino-azotoluene and 2-amino-4-nitrotoluene are detected by its splitted product o-toluidine and 2,4- toluenediamine.
 - 2)Azo colorants that are able to form 4-aminoazobenzene, generate under the condition of this method aniline and 1,4- phenyldiamine . The presence of these colorants can not be reliably ascertained without additional information, e.g. chemical structure of the colorant used.
 - 3)According to EN 14362-1:2012, separate test is suggested to ascertain the compliance for result of mixed test in the range between 5 ppm and 30 ppm.
 - 4)Azocolourants Content Requirement In Annex XVII Item 43 Of The REACH Regulation (EC) NO. 1907/2006 & Amendment No. 552/2009 and 126/2013 (Formerly Known As Directive 2002/61/EC
 - 5) According to the official method EN 14362-1:2012, if 4-Aminodiphenyl or 2-Naphthylamine or 2,4-Diaminoanisole is found exceeding requirement, the use of forbidden Azo colourants cannot be ascertained without additional information e.g. The chemical structure of the colourant used.
- ppm : part per million (mg/kg) Detection Limit: 5 ppm < = Less Than N: Not Detected NC : No Comment

Estimated Total Uncertainty=(±9%)

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Determination of Dimethylfumarate Content

ISO/TS 16186:2012

By Solvent Extraction and Chromatographic Analysis using Mass Spectrometry (GC-MS)

	<u>Result</u>	<u>DEICHMANN&CADS Requirement</u>
Part 1	Not Detected	0,1 ppm

ppm (part per million) =mg / kg
Detection Limit =0.1 ppm

Estimated Total Uncertainty=(Silica gel:±12% ; Textile:±11% ; Leather:±12%)

Formaldehyde Test

BS EN ISO 17226-1:2008 Determination of Formaldehyde Content by High Performance Liquid Chromatography (Leather)
BS EN ISO 14184 -1:2011 Free and Hydrolized Formaldehyde by UV-VIS Analysis(Textile)

<u>Tested Sample/Component</u>	<u>Result (ppm)</u>	<u>CADS Requirement</u>
Part 1 (with skin contact)	Not Detected	75 ppm

ND =Not Detected
ppm =part per million (mg/kg)
Detection Limit =5 ppm
< =Less Than

Estimated Total Uncertainty:±11%

Lead Content

DIN 54233-1:2010 by acid digestion and determined by ICP-MS (Textile)

BS EN 1122 : 2001 (Method B) and IHTM AL.2.004 microwave digestion and ICP-MS Determination (Plastic&Metal)

BS EN ISO 17072-2:2011 microwave digestion and ICP-MS Determination (Leather)

	<u>Result</u>	<u>DEICHMANN Requirement</u>
Part: 1		
Lead (Pb)	Not Detected	<i>90 ppm</i>

Detection Limit = 0.1 ppm
ppm (part per million) =mg / kg
< = Less Than

Estimated Total Uncertainty=(±8%)

Cadmium Content

DIN 54233-1:2010 by acid digestion and determined by ICP-MS (Textile)

BS EN 1122 : 2001 (Method B) and IHTM AL.2.004 microwave digestion and ICP-MS Determination (Plastic&Metal)

BS EN ISO 17072-2:2011 microwave digestion and ICP-MS Determination (Leather)

	<u>Result</u>	<u>CADS Requirement</u>
Part: 1	Not Detected	<i>100 ppm</i>

Detection Limit = 0.1 ppm
ppm (part per million) =mg / kg
< = Less Than

Estimated Total Uncertainty=(±8%)

Arsenic Content

DIN 54233-1:2010 by acid digestion and determined by ICP-MS (Textile)

BS EN 1122 : 2001 (Method B) and IHTM AL.2.004 microwave digestion and ICP-MS Determination (Plastic&Metal)

BS EN ISO 17072-2:2011 microwave digestion and ICP-MS Determination (Leather)

	<u>Result</u>	<u>DEICHMANN Requirement</u>
Part: 1		
	Not Detected	<i>30 ppm<NEED<50 ppm<FAIL</i>

Detection Limit = 0.1 ppm
ppm (part per million) =mg / kg
< = Less Than

Estimated Total Uncertainty=(±8%)

Determination of Odour

SNV 195 651: 1968-03

	RESULT	DEICHMANN REQUIREMENT
Sample	1	Grade 2-3

Rating	Description
1	Odourless
2	Weak
3	Tolerable
4	Annoying
5	Intolerable

Preserving Agents

(*)ISO 13365:2011 extraction with acetonitrile by Chromatography (GC-MS) Analysis(Leather)

ISO 17070 : 2015 Solvent extraction with KOH Chromatography (GC-MS & GC-ECD) Analysis(Textile)

Part: 1		
Testing Item	Result	CADS REQUIREMENT
Orthophenylphenol (o-PP)	Not Detected	1000 ppm

ND =Not Detected
ppm (part per million) =mg / kg
< = Less Than
Detection Limit = 10 ppm

Estimated Total Uncertainty:±12%

Determination of pH

BS EN ISO 4045 : 2008 –Leather

BS EN ISO 3071 :2006 –Textile

	RESULTS	Temperature (°C)	CADS REQUIREMENT
Part 1	6.5	22	4.5-7.5

Organotin Compounds by Gas Chromatography – Mass Spectrometry (GC-MS) Analysis

ISO/TS 16179:2012

Part: 1	Result	CADS REQUIREMENT
TRIBUTYLTIN (TBT)	Not Detected	1 ppm
TRIPHENYLTIN (TPhT)	Not Detected	1 ppm
BIS (TRIBUTYLTIN) OXIDE (TBTO)	Not Detected	1 ppm
MONOBUTYLTIN (MBT)	Not Detected	5 ppm
DIBUTYLTIN (DBT)	Not Detected	5 ppm
MONOOCTYLTIN (MOT)	Not Detected	5 ppm
DIOCTYLTIN (DOT)	Not Detected	5 ppm
DIBUTYLTIN DICHLORIDE (DBTC)	Not Detected	5 ppm
DIMETHYLTIN (DMT)	Not Detected	5 ppm
DIPHENYLTIN (DPhT)	Not Detected	5 ppm
DIPROPYLTIN (DPT)	Not Detected	5 ppm
MONOPHENYLTIN (MPhT)	Not Detected	5 ppm
TETRABUTYLTIN (TeBT)	Not Detected	5 ppm
TRICYCLOHEXYLTIN (TCyHT)	Not Detected	5 ppm
TRIMETHYLTIN (TMT)	Not Detected	5 ppm
TRIOCTYLTIN (TOT)	Not Detected	5 ppm
TRIPROPYLTIN (TPT)	Not Detected	5 ppm

ppm (part per million) =mg/kg
 Detection Limit =0.02 ppm

Estimated Total Uncertainty=(Textile:±7% ; Leather:±6%)

(*)Phthalate Content

CADS Test Method

Part: 1

<u>NAME</u>		<u>CAS No</u>	<u>RESULT</u>	<u>CADS REQUIREMENT</u>
DIBUTYL PHTHALATE	DBP	84-74-2	ND	500 ppm
DIETHYL HEXYL PHTHALATE	DEHP	117-81-7	ND	500 ppm
BENZYL BUTYL PHTHALATE	BBP	85-68-7	ND	500 ppm
DI-ISO-NONYL PHTHALATE	DINP	28553-12-0	ND	500 ppm
DI-N-OCTYL PHTHALATE	DNOP	117-84-0	ND	500 ppm
DI-ISO-DECYL PHTHALATE	DIDP	26761-40-0	ND	500 ppm
DI-ISO-BUTYL PHTHALATE	DIBP	84-69-5	ND	500 ppm
1,2-BENZENEDICARBOXYLIC ACID, DI-C6-8-BRANCHED ALKYL ESTERS, C7-RICH	DIHP	71888-89-6	ND	500 ppm
1,2-BENZENEDICARBOXYLIC ACID, DI-C7-11-BRANCHED AND LINEAR ALKYL ESTERS	DHNP	68515-42-4	ND	500 ppm
DI-(2-METHOXYETHYL) PHTHALATE	DMEP	117-82-8	ND	500 ppm
DI-N-HEXYLPHTHALATE	DHP	84-75-3	ND	500 ppm
DIISOPENTYLPHTHALATE	DIPP	605-50-5	ND	500 ppm
N-PENTYL-ISOPENTYLPHTHALATE	PIPP	776297-69-9	ND	500 ppm
1,2-BENZENEDICARBOXYLIC ACID, DIPENTYLESTER, BRANCHED AND LINEAR	-	84777-06-0	ND	500 ppm
DIPENTYL PHTHALATE	DPP	131-18-0	ND	500 ppm
DIETHYL PHTHALATE	DEP	84-66-2	ND	500 ppm

ppm (part per million) =mg / kg
 Detection Limit DINP, DIDP : 100 ppm, Other Phthalates : 10 ppm
 < =Less Than
 * =EXCEEDED LIMIT
 ND =Not Detected

Estimated Total uncertainty = (±5%)

Polycyclic Aromatic Hydrocarbons (PAH) in footwear

ISO/TS 16190:2013

	COMPOUND	RESULT (ppm)	CADS REQUIREMENT	
		(1)	EPA	REACH
1	BENZO (a) PYRENE	ND	10 ppm	0.5 ppm
2	BENZO(e)PYRENE	ND	--	0.5 ppm
3	BENZO (a) ANTHRACENE	ND	10 ppm	0.5 ppm
4	DIBENZO (a,h) ANTHRACENE	ND	10 ppm	0.5 ppm
5	BENZO (b) FLUORANTHENE	ND	10 ppm	0.5 ppm
6	BENZO(j)FLUORANTHENE	ND	--	0.5 ppm
7	BENZO (k) FLUORANTHENE	ND	10 ppm	0.5 ppm
8	CHRYSENE	ND	10 ppm	0.5 ppm
9	ACENAPHTHEN	ND	10 ppm	--
10	ACENAPHTHYLENE	ND	10 ppm	--
11	ANTHRACENE	0.2 ppm	10 ppm	0.5 ppm
12	BENZO (ghi) PERYLENE	ND	10 ppm	--
13	FLUORANTHENE	0.6 ppm	10 ppm	--
14	FLUORENE	ND	10 ppm	--
15	INDENO (1,2,3-cd) PYRENE	ND	10 ppm	--
16	NAPHTHALENE	0.9 ppm	10 ppm	--
17	PHENANTHRENE	0.7 ppm	10 ppm	--
18	PYRENE	ND	10 ppm	--
	SUM OF PAHS	2.4 ppm	10 ppm	10 ppm

ppm (part per million) =mg / kg	
Detection Limit = 0.05 ppm	

Estimated Total Uncertainty= ±12%

VOC – Determination of Dimethylformamide Content (DMFA)

ISO/TS 16189:2013

By Solvent Extraction and Chromatographic Analysis using Mass Spectrometry (GC-MS)

	<u>Result</u>	<u>CADS REQUIREMENT</u>
Part 1	191 ppm	500 ppm

ppm (part per million) =mg / kg
 Detection Limit =5 ppm

Estimated Total Uncertainty=(Silica gel:±12% ; Textile:±11% ; Leather:±12%)

VOC - Benzene

IHTM AL.2.409 refer to HS-Screening GC/MS

Part 4		
<u>Substance</u>	<u>Result</u>	<u>CADS REQUIREMENT</u>
Benzene (71-43-4)	Not Detected	5 ppm

ppm (part per million) =mg / kg
 Detection Limit =5 ppm

VOC - Toluene

IHTM AL.2.409 refer to HS-Screening GC/MS

Part 4		
<u>Substance</u>	<u>Result</u>	<u>CADS REQUIREMENT</u>
Toluene (108-88-3)	7 ppm	10 ppm

ppm (part per million) =mg / kg
 Detection Limit =5 ppm

Determination of Heavy Metals –Antimony

DIN 54233-1:2010 by acid digestion and determined by ICP-MS

	<u>Result</u>	<u>DEICHMANN Need Limit</u>
Part: 1		
	8 ppm	100 ppm

ND =Not Detected
ppm (part per million) =mg / kg
< = Less Than
Detection limit:0.1 ppm

Disperse Dyestuffs - Allergenic

ISO 16373-2:2014

By High Performance Liquid Chromatography&Mass Spectroscopy (LC-MS-MS) & HPLC - DAD Analysis

Part: 1

<u>C.I Generic Name</u>	<u>RESULT</u>	<u>CADS REQUIREMENT</u>
C.I. Disperse Blue 3:	Not Detected	3.3 mg/L for each dyes
C.I. Disperse Blue 7:	Not Detected	
C.I. Disperse Blue 26:	Not Detected	
C.I. Disperse Blue 35:	Not Detected	
C.I. Disperse Blue 102:	Not Detected	
C.I. Disperse Blue 106:	Not Detected	
C.I. Disperse Blue 124:	Not Detected	
C.I. Disperse Brown 1:	Not Detected	
C.I. Disperse Orange 1:	Not Detected	
C.I. Disperse Orange 3:	Not Detected	
C.I. Disperse Orange 37/76:	Not Detected	
C.I. Disperse Red 1:	Not Detected	
C.I. Disperse Red 11:	Not Detected	
C.I. Disperse Red 17:	Not Detected	
C.I. Disperse Yellow 1:	Not Detected	
C.I. Disperse Yellow 9:	Not Detected	
C.I. Disperse Yellow 39:	Not Detected	
C.I. Disperse Yellow 49:	Not Detected	

ND =Not Detected
Reporting Limit =1 mg/L
ppm =part per million (mg/kg)
< =Less Than

Estimated Total Uncertainty=(±11%)

Dyestuffs - Carcinogenic

IHTM AL.2.091 refer to DIN 54231:2005 By High Performance Liquid Chromatography & Mass Spectroscopy (LC-MS-MS) & HPLC-DAD Analysis

Part: 1		
<u>COMPOUND</u>	<u>RESULT</u>	<u>CADS REQUIREMENT</u>
ACID RED 26	Not Detected	3.3 mg/L for each
BASIC RED 9	Not Detected	
BASIC VIOLET 14	Not Detected	
DIRECT BLACK 38	Not Detected	
DIRECT BLUE 6	Not Detected	
DIRECT RED 28	Not Detected	
DISPERSE BLUE 1	Not Detected	
DISPERSE ORANGE 11	Not Detected	
DISPERSE YELLOW 3	Not Detected	
DISPERSE YELLOW 23	Not Detected	
DISPERSE ORANGE 149	Not Detected	

ND = Not Detected
Reporting Limit =1 mg/L
ppm = part per million (mg/kg)
< =Less Than

Estimated Total Uncertainty=(±8%)

Dyestuffs - Others

IHTM AL.2.090 & AL.2.178 refer to DIN 54231:2005 By High Performance Liquid Chromatography & Mass Spectroscopy (LC-MS-MS)

Part: 1		
<u>COMPOUND</u>	<u>RESULT</u>	<u>CADS REQUIREMENT</u>
Basic Blue 26	Not Detected	3.3 mg/L for each dyestuff
Basic Violet 1	Not Detected	
Basic Green 4	Not Detected	
Solvent Yellow 2	Not Detected	
Acid Violet 49	Not Detected	
Solvent Yellow 14	Not Detected	
Blue Colorant	Not Detected	Not Detected

ND = Not Detected
Detection Limit = 1 mg/L
ppm = part per million (mg/kg)

Estimated Total Uncertainty=(±2%)

Chlorinated Benzenes and Toluenes

INTERTEK IHTM AL.2.005 refer to DIN 54232 : 2010

By Solvent Extraction And Gas Chromatography Analysis Using Mass Spectrometry Or Electron Capture Detector

Part: 1		
COMPOUND:	RESULT (mg/kg)	CADS REQUIREMENT
Monochlorobenzene	Not Detected	
1,2-Dichlorobenzene	Not Detected	
1,3-Dichlorobenzene	Not Detected	
1,4-Dichlorobenzene	Not Detected	
1,2,3-Trichlorobenzene	Not Detected	
1,2,4-Trichlorobenzene	Not Detected	
1,3,5-Trichlorobenzene	Not Detected	
1,2,3,4-Tetrachlorobenzene	Not Detected	
1,2,3,5-Tetrachlorobenzene	Not Detected	
1,2,4,5-Tetrachlorobenzene	Not Detected	
Pentachlorobenzene	Not Detected	
Hexachlorobenzene	Not Detected	
2-Chlorotoluene	Not Detected	
3-Chlorotoluene	Not Detected	
4-Chlorotoluene	Not Detected	
2,3-Dichlorotoluene	Not Detected	
2,4-Dichlorotoluene	Not Detected	
2,5-Dichlorotoluene	Not Detected	
2,6-Dichlorotoluene	Not Detected	
3,4-Dichlorotoluene	Not Detected	
2,3,6-Trichlorotoluene	Not Detected	
2,4,5-Trichlorotoluene	Not Detected	
Tetrachlorotoluene	Not Detected	
Pentachlorotoluene	Not Detected	
SUM	Not Detected	10 mg/kg

ND =Not Detected
ppm (part per million) =mg / kg
< =Less Than
Detection Limit =0.5 mg/kg

Estimated Total Uncertainty:±13%

END OF TEST REPORT