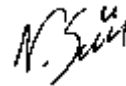


TEST REPORT**REPORT NUMBER :** TURA120082950**APPLICANT NAME** **Karslıođlu Kırt. San. ve Tic. A.Ş.****ADDRESS**Davutpařa Cad. Yılanlı Ayazma Yolu Uđur Plaza No:4/B Davutpařa İstanbul TURKEY
Faks No :0212 481 63 81
İlgili Kiři :Özer Karslıođlu (karslioglu@karslioglu.com.tr)**SAMPLE DESCRIPTION :** Brush set**BUYER :** TÜKİD**DATE IN :** 09 July, 2012 (13:59)**DATE OUT :** 20 July, 2012**PHOTO OF PRODUCT TESTED :**

Part No	Tested Part
1	DARK BROWN BODY WITH PRINT
2	METAL PART
3	BROWN BRUSH

Füsün Karaođlu
CoordinatorNeslihan Sözer
Chemical Laboratory Manager

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Intertek Test Hizmetleri A.S.

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120082950

Code	Test Method	Result	Requirements
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RESULTS :

Analysis Parameter	Reference Analysis Method	PASS	FAIL	Norm Limit	Standard for Norm Limit	Tested Part
Azo Dyes	64 LFBG B 82.02.2	P	-	30 ppm	2004/21/EC	Part 1 Part 3
Toxic Element Analysis	BS EN 71-3:1995	P	-	Sb: 60 ppm As: 25 ppm Ba: 1000 ppm Cd: 75 ppm Cr: 60 ppm Pb: 90 ppm Hg: 60 ppm Se: 500 ppm	EN 71-3	Part 1-3
Phthalate	EN 14372 by GC MS	P	-	DBP/DEHP/BBP : 1000 ppm DINP/DNOP/ DIDP : 1000 ppm	(27893) Notification On Market Supervision And Controls Regarding Hazardous Chemical Contents Of Some End- User Products	Part 1 Part 3
PAH	ZEK 01-08 Method	P	-	Total PAH <10 ppm BaP <1 ppm	2005/69/EC	Part 1 Part 3

P = MEETS BUYER' S REQUIREMENT / F = DOES NOT MEET BUYER' S REQUIREMENT / NR = NO REQUIREMENT / SC=STILL CONTINUES / X=NOT PERFORMED

The test results relate only to the items tested. The report shall not be reproduced except in full, without the written approval of the laboratory. The reported uncertainty is based on a standard uncertainty multiplied by a coverage factor k=2, providing a level of confidence of approximately 95%. The uncertainty evaluation has been carried out in accordance with ISO/IEC 17025 and UKAS accreditation requirements. Unless otherwise is specified, all Pass or Fail results are given without uncertainty considered. When uncertainty is taken into account, the result may be borderline. Borderline results need to be re-tested to determine their disposition up to customer's decision. Opinions and interpretations expressed herein are outside the scope of UKAS accreditation. Tests marked (*) in this test report are not included in the UKAS accreditation schedule for this laboratory.



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Code	Test Method	Result	Requirements
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Azo Dye stuff

64 LFGB 82.02.2:2004

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

Part 1&3

Composite sample of Dark brown body part with print,brown brush

PASS 30 ppm

INTERPRETATION OF AZO-DYES TEST RESULTS:

AS PER GERMAN TEST PROCEDURE FOR DETECTION OF CARCINOGENIC AMINES IN DYED MATERIALS PUBLISHED IN THE OFFICIAL COMPILATION OF TEST METHODS TEXTILE ACCORDING TO § 64 LFGB 82.02-2, LEATHER ACCORDING TO § 64 LFGB 82.02-3, PES ACCORDING TO § 64 LFGB 82.02-4, EXTRACTED BY CITRATE BUFFERED SOLUTION pH 6 AT 70 °C AND DETECTED BY GC/MS AND CONTROLLED BY HPLC/DAD AND THIN LAYER CHROMATOGRAPHIC ANALYSIS.

FORBIDDEN AMINE

4-AMINOBIHENYL
 BENZIDINE
 CHLORO-O-4-CHLOR-O-TOLUIDINE
 2-NAPHTHYLAMINE
 *O-AMINOAZOTOLUENE
 *2-AMINO-4-NITROTOLUENE
 P-CHLOROANILINE
 2,4-DIAMINOANISOLE
 4,4'-DIAMINOBIHENYLMETHANE
 3,3'-DICHLOROBENZIDINE
 3,3'-DIMETHOXYBENZIDINE
 3,3'-DIMETHYLBENZIDINE
 3,3'-DIMETHYL-4,4' DIAMINOBIHENYLMETHANE
 P-CRESIDINE
 4,4'-METHYLENE-BIS-(2 CHLOROANILINE)
 4,4'-OXYDIANILINE
 4,4'-THIODIANILINE
 O-TOLUIDINE
 2,4-TOLUYLENDIAMINE
 2,4,5-TRIMETHYLANILINE
 O-ANISIDINE
 **P-AMINOAZOBENZENE

CAS NO

92-67-1
 92-87-5
 95-69-2
 91-59-8
 97-56-3
 99-55-8
 106-47-8
 615-05-4
 101-77-9
 91-94-1
 119-90-4
 119-93-7
 838-88-0
 120-71-8
 101-14-4
 101-80-4
 139-65-1
 95-53-4
 95-80-7
 137-17-7
 90-04-0
 60-09-3

NOTE:* The amines o-amino-azotoluene and 2-amino-4-nitrotoluene are detected by its splitted product o-toluidine and 2,4- toluylendiamine.

**Azo colorants that are able to form 4-aminoazobenzene, generate under the condition of this method aniline and 1,4- phenylendiamine . The presence of these colorants can not be reliably ascertained without additional information, e.g. chemical structure of the colorant used.

Remark

< = Less Than
 ppm(Part per million)= mg/ kg
 Detection Limit = 5 ppm
 Total Uncertainty = ±10%



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Code	Test Method	Result	Requirements
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Toxic Elements Analysis

BS EN 71-3:1995 :

Acid extraction method was used and toxic elements content were determined by Inductively Coupled Plasma-ICP_OES.

			<u>RESULT IN ppm</u>	<u>PASS/FAIL</u>	<u>Requirement (ppm)</u>
Part 1	Antimony (Sb)		<2 ppm	PASS	60
	Arsenic (As)		<2 ppm	PASS	25
	Barium (Ba)		<2 ppm	PASS	1000
	Cadmium (Cd)		<2 ppm	PASS	75
	Chromium (Cr)		<5 ppm	PASS	60
	Lead (Pb)		<5 ppm	PASS	90
	Mercury (Hg)		<2 ppm	PASS	60
	Selenium (Se)		<2 ppm	PASS	500
Part 2	Antimony (Sb)		<2 ppm	PASS	60
	Arsenic (As)		<2 ppm	PASS	25
	Barium (Ba)		<2 ppm	PASS	1000
	Cadmium (Cd)		<2 ppm	PASS	75
	Chromium (Cr)		<5 ppm	PASS	60
	Lead (Pb)		<5 ppm	PASS	90
	Mercury (Hg)		<2 ppm	PASS	60
	Selenium (Se)		<2 ppm	PASS	500
Part 3	Antimony (Sb)		<2 ppm	PASS	60
	Arsenic (As)		<2 ppm	PASS	25
	Barium (Ba)		<2 ppm	PASS	1000
	Cadmium (Cd)		<2 ppm	PASS	75
	Chromium (Cr)		<5 ppm	PASS	60
	Lead (Pb)		<5 ppm	PASS	90
	Mercury (Hg)		<2 ppm	PASS	60
	Selenium (Se)		<2 ppm	PASS	500

ppm (Part per million) =mg / kg
 < =Less Than

(Total uncertainty=Results quoted have been corrected for uncertainty. -)



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Code	Test Method	Result	Requirements
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TOTAL PHTHALATE CONTENT

EN 14372 : 2004 Method By Gas Chromatographic-Mass Spectrometric (GC-MS) Analysis :

Part 1	RESULT (%. w/w)
DIBUTYL PHTHALATE (DBP)	Not Detected
DIETHYL HEXYL PHTHALATE (DEHP)	Not Detected
BENZYL BUTYL PHTHALATE (BBP)	Not Detected
SUM OF THREE PHTHALATES	Not Detected
LIMIT (MAX.)	1000 ppm (0.1% (w/w))
	RESULT (%. w/w)
DI-ISO-NONYL PHTHALATE (DINP)	Not Detected
DI-N-OCTYL PHTHALATE (DNOP)	Not Detected
DI-ISO-DECYL PHTHALATE (DIDP)	Not Detected
SUM OF THREE PHTHALATES	Not Detected
LIMIT (MAX.)	1000 ppm (0.1% (w/w))

REMARK =The Above Limit Was Quoted According To The EEC Directive 2005/84/EC On 14 December 2005.

ppm (part per million) =mg / kg
 Detection Limit =10 ppm
 < =Less Than
 * =EXCEEDED LIMIT

(Total Uncertainty=±5 %)



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Code	Test Method	Result	Requirements
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TOTAL PHTHALATE CONTENT

EN 14372 : 2004 Method By Gas Chromatographic-Mass Spectrometric (GC-MS) Analysis :

Part 3	RESULT (%. w/w)
DIBUTYL PHTHALATE (DBP)	Not Detected
DIETHYL HEXYL PHTHALATE (DEHP)	Not Detected
BENZYL BUTYL PHTHALATE (BBP)	Not Detected
SUM OF THREE PHTHALATES	Not Detected
LIMIT (MAX.)	1000 ppm (0.1% (w/w))
	RESULT (%. w/w)
DI-ISO-NONYL PHTHALATE (DINP)	Not Detected
DI-N-OCTYL PHTHALATE (DNOP)	Not Detected
DI-ISO-DECYL PHTHALATE (DIDP)	Not Detected
SUM OF THREE PHTHALATES	Not Detected
LIMIT (MAX.)	1000 ppm (0.1% (w/w))

REMARK =The Above Limit Was Quoted According To The EEC Directive 2005/84/EC On 14 December 2005.

ppm (part per million) =mg / kg
Detection Limit =10 ppm
< =Less Than
* =EXCEEDED LIMIT

(Total Uncertainty=±5 %)



2111

Code	Test Method	Result	Requirements
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Polycyclic Aromatic Hydrocarbons (PAHs) Analysis

IHTM AL.2.032 ZEK 01-08 :

Harmonisierte Methode zur Bestimmung von polycyclischen aromatischen Kohlenwasserstoffen (PAK) in Kunststoffproben ZEK 01-08 AS SOLVENT EXTRACTION AND FOLLOWED BY GAS CHROMATOGRAPHY MASS SPECTROMETRIC (GC/MS) ANALYSIS

Part 1	RESULT (ppm)	
NAPHTHALENE	Not Detected	Category 2
ACENAPHTHYLENE	Not Detected	Total 18 PAH : 10 mg/kg
ACENAPHTHEN	Not Detected	Benzo(a)pyrene : 1 mg/kg
FLUORENE	Not Detected	
PHENANTHRENE	Not Detected	
ANTHRACENE	Not Detected	
FLUORANTHENE	Not Detected	
PYRENE	Not Detected	
BENZO (a) ANTHRACENE	Not Detected	
CHRYSENE	Not Detected	
BENZO (b) FLUORANTHENE	Not Detected	
BENZO (k) FLUORANTHENE	Not Detected	
BENZO (a) PYRENE	Not Detected	
INDENO (1,2,3-cd) PYRENE	Not Detected	
DIBENZO (a,h) ANTHRACENE	Not Detected	
BENZO (ghi) PERYLENE	Not Detected	
BENZO(i)FLUORANTHENE	Not Detected	
BENZO(e)PYRENE	Not Detected	

SUM (18 PAH):	Not Detected	
ppm (part per million) =mg / kg		
Detection Limit = 0.1 ppm		
n.d. = Not Detected		

(Total Uncertainty=±3%)



2111

Code	Test Method	Result	Requirements
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Polycyclic Aromatic Hydrocarbons (PAHs) Analysis

IHTM AL.2.032 ZEK 01-08 :

Harmonisierte Methode zur Bestimmung von polycyclischen aromatischen Kohlenwasserstoffen (PAK) in Kunststoffproben ZEK 01-08 AS SOLVENT EXTRACTION AND FOLLOWED BY GAS CHROMATOGRAPHY MASS SPECTROMETRIC (GC/MS) ANALYSIS

Part 3	RESULT (ppm)	
NAPHTHALENE	Not Detected	Category 2
ACENAPHTHYLENE	Not Detected	Total 18 PAH : 10 mg/kg
ACENAPHTHEN	Not Detected	Benzo(a)pyrene : 1 mg/kg
FLUORENE	Not Detected	
PHENANTHRENE	Not Detected	
ANTHRACENE	Not Detected	
FLUORANTHENE	Not Detected	
PYRENE	Not Detected	
BENZO (a) ANTHRACENE	Not Detected	
CHRYSENE	Not Detected	
BENZO (b) FLUORANTHENE	Not Detected	
BENZO (k) FLUORANTHENE	Not Detected	
BENZO (a) PYRENE	Not Detected	
INDENO (1,2,3-cd) PYRENE	Not Detected	
DIBENZO (a,h) ANTHRACENE	Not Detected	
BENZO (ghi) PERYLENE	Not Detected	
BENZO(i)FLUORANTHENE	Not Detected	
BENZO(e)PYRENE	Not Detected	

SUM (18 PAH):	Not Detected	
ppm (part per million) =mg / kg		
Detection Limit = 0.1 ppm		
n.d. = Not Detected		

(Total Uncertainty=±3%)

END OF TEST REPORT



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