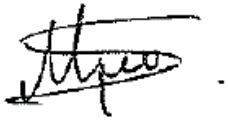


TEST REPORT

REPORT NUMBER : TURA140124458
APPLICANT NAME **Bilgi Dağıtım Kitap Kirt. Ve Büro Malz. Tic. Ltd.Şti.**
Yenibosna Merkez Mah. 29 Ekim Cad. No:53 Bahçelievler - İstanbul
FAX NO : 0212 551 00 92
ADDRESS **Attention : Turan Bey (turan@bilgi-dagitim.com)**
SAMPLE DESCRIPTION : 12 erasable wax crayons&12 erasable jumbo wax crayons
BUYER : TÜKİD
DATE IN : 14 August, 2014 (10:58)
DATE OUT : 20 August, 2014
ARTICLE NO : BP747-10,BP747-05

PHOTO OF PRODUCT TESTED :



Merve Şahin
Coordinator



Neslihan Sözer
Chemical Laboratory Manager

Intertek Test Hizmetleri A.S.

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140124458

Code	Test Method	Result	Requirements
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Sample No	Tested Sample
1	YELLOW PAINT
2	ORANGE PAINT
3	PINK PAINT
4	BLUE PAINT
5	RED PAINT
6	GREEN PAINT
7	DARK GREEN PAINT
8	DARK BLUE PAINT
9	LILAC PAINT
10	PURPLE PAINT
11	BROWN PAINT
12	BLACK PAINT
13	BLACK INNER PLASTIC CAP
14	MULTICOLOR OUTER BOX
15	RED PLASTIC PART OF SHARPENER
16	WHITE ERASER WITH PRINT
17	SILVER METAL KNIFE OF SHARPENER
18	SILVER METAL SCREW OF SHARPENER

Code	Test Method	Result	Requirements
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RESULTS :

Analysis Parameter	Reference Analysis Method	PASS	FAIL	Norm Limit	Standard for Norm Limit	Tested Sample
Azo Dyes	EN 14362-1 : 2012 for Textile Material	P	-	30 ppm	1907-2006-EC	Part 1-16
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 1-18
Phthalate	EN 14372 by GC MS	P	-	DBP/DEHP/BBP : 1000 ppm DINP/DNOP/ DIDP :1000 ppm	EEC Directive 2005/84/EC on 14 December 2005	Part 1-16
PAH	ZEK 01-08 Method	P	-	Total PAH <10 ppm BaP <1 ppm	2005/69/EC	Part 1-16

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

"The test results relate only to the items tested. The whole and/or the part of this test report shall not be reproduced and shall not be shared with third parties, nor to be used for PR activities without the written permission of INTERTEK Test Hizmetleri A.S.
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 TÜRKAK 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 TÜRKAK accreditation. Tests marked (*) in this test report are not included in the TÜRKAK accreditation schedule for this laboratory."



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Code	Test Method	Result	Requirements
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Detection Of Amines Derived From Azocolourants and Azodyes

By Gas Chromatographic – Mass Spectrometric (GC-MS) And High Performance Liquid Chromatographic (HPLC) Analysis
Test Method : EN 14362-1 : 2012 for Textile Material

Part 1&2&3&4&5&6&7&8&9&10&11&12&13&14&15&16

1)Composite sample of Green,dark blue,purple dye (without extraction)	<30 ppm
2)Composite sample of Lilac,brown,black paint (without extraction)	<30 ppm
3)Composite sample of Blue,red,dark green paint (without extraction)	<30 ppm
4)Composite sample of Yellow,orange,pink paint (without extraction)	<30 ppm
5)Multicolor outer box (without extraction)	<30 ppm
6)Composite sample of Black inner plastic cap,red plastic part (with extraction)	<30 ppm
7)White eraser (with extraction)	<30 ppm

INTERPRETATION OF AZO-DYES TEST RESULTS:

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

Note:

- 1)The amines o-amino-azotoluene and 2-amino-4-nitrotoluene are detected by its splitted product o-toluidine and 2,4- toluylenediamine.
- 2)Azo colorants that are able to form 4-aminoazobenzene, generate under the condition of this method aniline and 1,4- phenylenediamine . 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

ppm : part per million (mg/kg)

Detection Limit: 5 ppm

< = Less Than

Total Uncertainty = ± 9%

N:Not detected



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>Part 1</u>	<u>Part 2</u>	<u>Part 3</u>	<u>Part 4</u>	<u>Part 5</u>	<u>Part 6</u>	<u>Part 7</u>
Antimony	(Sb)	ND	ND	ND	ND	ND	ND	ND
Arsenic	(As)	ND	ND	ND	ND	ND	ND	ND
Barium	(Ba)	ND	ND	ND	ND	ND	ND	ND
Cadmium	(Cd)	ND	ND	ND	ND	ND	ND	ND
Chromium	(Cr)	ND	ND	ND	ND	ND	ND	ND
Lead	(Pb)	ND	ND	ND	ND	ND	ND	ND
Mercury	(Hg)	ND	ND	ND	ND	ND	ND	ND
Selenium	(Se)	ND	ND	ND	ND	ND	ND	ND

		<u>Part 8</u>	<u>Part 9</u>	<u>Part 10</u>	<u>Part 11</u>	<u>Part 12</u>	<u>Part 13</u>	<u>Part 14</u>
Antimony	(Sb)	ND	ND	ND	ND	ND	ND	ND
Arsenic	(As)	ND	ND	ND	ND	ND	ND	ND
Barium	(Ba)	ND	ND	ND	ND	ND	ND	ND
Cadmium	(Cd)	ND	ND	ND	ND	ND	ND	ND
Chromium	(Cr)	ND	ND	ND	ND	ND	ND	ND
Lead	(Pb)	ND	ND	ND	ND	ND	ND	ND
Mercury	(Hg)	ND	ND	ND	ND	ND	ND	ND
Selenium	(Se)	ND	ND	ND	ND	ND	ND	ND

		<u>Detection Limit</u>	<u>Requirement (ppm)</u>
Antimony	(Sb)	<2 ppm	<60
Arsenic	(As)	<2 ppm	<25
Barium	(Ba)	<2 ppm	<1000
Cadmium	(Cd)	<2 ppm	<75
Chromium	(Cr)	<5 ppm	<60
Lead	(Pb)	<5 ppm	<90
Mercury	(Hg)	<2 ppm	<60
Selenium	(Se)	<2 ppm	<500

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

ppm (Part per million)

<

ND

=mg / kg

=Less Than

=Not Detected



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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>Part 15</u>	<u>Part 16</u>	<u>Part 17</u>	<u>Part 18</u>
Antimony	(Sb)	ND	ND	ND	ND
Arsenic	(As)	ND	ND	ND	ND
Barium	(Ba)	ND	ND	ND	ND
Cadmium	(Cd)	ND	ND	ND	ND
Chromium	(Cr)	ND	ND	ND	ND
Lead	(Pb)	ND	ND	ND	ND
Mercury	(Hg)	ND	ND	ND	ND
Selenium	(Se)	ND	ND	ND	ND

		<u>Detection Limit</u>	<u>Requirement (ppm)</u>
Antimony	(Sb)	<2 ppm	<60
Arsenic	(As)	<2 ppm	<25
Barium	(Ba)	<2 ppm	<1000
Cadmium	(Cd)	<2 ppm	<75
Chromium	(Cr)	<5 ppm	<60
Lead	(Pb)	<5 ppm	<90
Mercury	(Hg)	<2 ppm	<60
Selenium	(Se)	<2 ppm	<500

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

ppm (Part per million)

<

ND

=mg / kg

=Less Than

=Not Detected



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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	Part 2	Part 3	Part 4	Part 5	Part 6	Part 7
DIBUTYL PHTHALATE (DBP)	ND	ND	ND	ND	ND	ND	ND
DIETHYL HEXYL PHTHALATE (DEHP)	ND	ND	ND	ND	ND	ND	ND
BENZYL BUTYL PHTHALATE (BBP)	ND	ND	ND	ND	ND	ND	ND
SUM OF THREE PHTHALATES	ND	ND	ND	ND	ND	ND	ND
DI-ISO-NONYL PHTHALATE (DINP)	ND	ND	ND	ND	ND	ND	ND
DI-N-OCTYL PHTHALATE (DNOP)	ND	ND	ND	ND	ND	ND	ND
DI-ISO-DECYL PHTHALATE (DIDP)	ND	ND	ND	ND	ND	ND	ND
SUM OF THREE PHTHALATES	ND	ND	ND	ND	ND	ND	ND

	Part 8	Part 9	Part 10	Part 11	Part 12	Part 13
DIBUTYL PHTHALATE (DBP)	ND	ND	ND	ND	ND	ND
DIETHYL HEXYL PHTHALATE (DEHP)	ND	ND	ND	ND	ND	ND
BENZYL BUTYL PHTHALATE (BBP)	ND	ND	ND	ND	ND	ND
SUM OF THREE PHTHALATES	ND	ND	ND	ND	ND	ND
DI-ISO-NONYL PHTHALATE (DINP)	ND	ND	ND	ND	ND	ND
DI-N-OCTYL PHTHALATE (DNOP)	ND	ND	ND	ND	ND	ND
DI-ISO-DECYL PHTHALATE (DIDP)	ND	ND	ND	ND	ND	ND
SUM OF THREE PHTHALATES	ND	ND	ND	ND	ND	ND

REMARK =The Above Limit Was Quoted According To The EEC Directive 2005/84/EC On 14 December 2005.
 ND =Not Detected
 ppm (part per million) =mg / kg
 Detection Limit = DINP,DIDP : 100 ppm, Other Phthalates : 10 ppm
 < =Less Than
 * =EXCEEDED LIMIT
 LIMIT (MAX.) =DBP,DEHP,BBP < 1000 ppm ; DINP, DNOP, DIDP < 1000 ppm

(Total Uncertainty=±5 %)



Code	Test Method	Result	Requirements
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TOTAL PHTHALATE CONTENT

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

	<u>Part 14</u>	<u>Part 15</u>	<u>Part 16</u>
DIBUTYL PHTHALATE (DBP)	ND	ND	ND
DIETHYL HEXYL PHTHALATE (DEHP)	ND	ND	ND
BENZYL BUTYL PHTHALATE (BBP)	ND	ND	ND
SUM OF THREE PHTHALATES	ND	ND	ND
	ND	ND	ND
DI-ISO-NONYL PHTHALATE (DINP)	ND	ND	ND
DI-N-OCTYL PHTHALATE (DNOP)	ND	ND	ND
DI-ISO-DECYL PHTHALATE (DIDP)	ND	ND	ND
SUM OF THREE PHTHALATES	ND	ND	ND

REMARK	=The Above Limit Was Quoted According To The EEC Directive 2005/84/EC On 14 December 2005.
ND	=Not Detected
ppm (part per million)	=mg / kg
Detection Limit	= DINP,DIDP : 100 ppm, Other Phthalates : 10 ppm
<	=Less Than
*	=EXCEEDED LIMIT
LIMIT (MAX.)	=DBP,DEHP,BBP < 1000 ppm ; DINP, DNOP, DIDP < 1000 ppm

(Total Uncertainty=±5 %)

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

INTERTEK IHTM AL.2.032 : 2012 based on ZEK 01-04-08

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	Part 2	Part 3	Part 4	Part 5	Part 6	Part 7	Part 8
NAPHTHALENE	ND	ND	ND	ND	ND	ND	ND	ND
ACENAPHTHYLENE	ND	ND	ND	ND	ND	ND	ND	ND
ACENAPHTHEN	ND	ND	ND	ND	ND	ND	ND	ND
FLUORENE	ND	ND	ND	ND	ND	ND	ND	ND
PHENANTHRENE	ND	ND	ND	ND	ND	ND	ND	ND
ANTHRACENE	ND	ND	ND	ND	ND	ND	ND	ND
FLUORANTHENE	ND	ND	ND	ND	ND	ND	ND	ND
PYRENE	ND	ND	ND	ND	ND	ND	ND	ND
BENZO (a) ANTHRACENE	ND	ND	ND	ND	ND	ND	ND	ND
CHRYSENE	ND	ND	ND	ND	ND	ND	ND	ND
BENZO (b) FLUORANTHENE	ND	ND	ND	ND	ND	ND	ND	ND
BENZO (k) FLUORANTHENE	ND	ND	ND	ND	ND	ND	ND	ND
BENZO (a) PYRENE	ND	ND	ND	ND	ND	ND	ND	ND
INDENO (1,2,3-cd) PYRENE	ND	ND	ND	ND	ND	ND	ND	ND
DIBENZO (a,h) ANTHRACENE	ND	ND	ND	ND	ND	ND	ND	ND
BENZO (ghi) PERYLENE	ND	ND	ND	ND	ND	ND	ND	ND
BENZO(i)FLUORANTHENE	ND	ND	ND	ND	ND	ND	ND	ND
BENZO(e)PYRENE	ND	ND	ND	ND	ND	ND	ND	ND

SUM (18 PAH):	ND	ND	ND	ND	ND	ND	ND	ND
ppm (part per million) =mg / kg	Requirement : Category 2 Total 18 PAH : 10 mg/kg Benzo(a)pyrene : 1 mg/kg							
Detection Limit = 0.2 ppm								
ND = Not Detected								

Estimated Total Uncertainty= ±3%



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

INTERTEK IHTM AL.2.032 : 2012 based on ZEK 01-04-08

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 9	Part 10	Part 11	Part 12	Part 13	Part 14	Part 15	Part 16
NAPHTHALENE	ND	ND	ND	ND	ND	ND	ND	ND
ACENAPHTHYLENE	ND	ND	ND	ND	ND	ND	ND	ND
ACENAPHTHEN	ND	ND	ND	ND	ND	ND	ND	ND
FLUORENE	ND	ND	ND	ND	ND	ND	ND	ND
PHENANTHRENE	ND	ND	ND	ND	ND	ND	ND	ND
ANTHRACENE	ND	ND	ND	ND	ND	ND	ND	ND
FLUORANTHENE	ND	ND	ND	ND	ND	ND	ND	ND
PYRENE	ND	ND	ND	ND	ND	ND	ND	ND
BENZO (a) ANTHRACENE	ND	ND	ND	ND	ND	ND	ND	ND
CHRYSENE	ND	ND	ND	ND	ND	ND	ND	ND
BENZO (b) FLUORANTHENE	ND	ND	ND	ND	ND	ND	ND	ND
BENZO (k) FLUORANTHENE	ND	ND	ND	ND	ND	ND	ND	ND
BENZO (a) PYRENE	ND	ND	ND	ND	ND	ND	ND	ND
INDENO (1,2,3-cd) PYRENE	ND	ND	ND	ND	ND	ND	ND	ND
DIBENZO (a,h) ANTHRACENE	ND	ND	ND	ND	ND	ND	ND	ND
BENZO (ghi) PERYLENE	ND	ND	ND	ND	ND	ND	ND	ND
BENZO(i)FLUORANTHENE	ND	ND	ND	ND	ND	ND	ND	ND
BENZO(e)PYRENE	ND	ND	ND	ND	ND	ND	ND	ND

SUM (18 PAH):	ND	ND	ND	ND	ND	ND	ND	ND
ppm (part per million) =mg / kg	Requirement : Category 2 Total 18 PAH : 10 mg/kg Benzo(a)pyrene : 1 mg/kg							
Detection Limit = 0.2 ppm								
ND = Not Detected								

Estimated Total Uncertainty= ±3%

END OF TEST REPORT



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