

TEST REPORT

REPORT NUMBER : TURA140106749
APPLICANT NAME **Bilgi Dağıtım Kitap Kırt. Ve Büro Malz. Tic. Ltd.Şti.**
Yenibosna Merkez Mah. 29 Ekim Cad. No:53 Bahçelievler - İstanbul
FAX NO : 0212 551 00 92
ADDRESS **Attention : Ahmet Yüksel (ayuksel @bilgi-dagitim.com)**
SAMPLE DESCRIPTION : Dust Free Eraser
BUYER : TÜKID
DATE IN : 08 July, 2014 (13:59)
DATE OUT : 15 July, 2014
ARTICLE NO : BP970-20,BP970-30,BP971-20,BP791-24

PHOTO OF PRODUCT TESTED :

Merve Şahin
Coordinator

Neslihan Sözer
Chemical Laboratory Manager

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140106749

Code	Test Method	Result	Requirements
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Part No	Tested Sample
1	BLACK ERASER(BP971-20)
2	WHITE ERASER(BP970-20)
3	SMALL WHITE ERASER(BP970-30)
4	BLUE ERASER(BP791-24)
5	RED CARTON
6	BLUE CARTON



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 1,4-6
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 1-6
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 1-6

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

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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."



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&4&5&6

1)Composite sample of Black,blue eraser (without extraction) <30 ppm
2)Composite sample of Red,blue carton (without extraction) <30 ppm

INTERPRETATION OF AZO-DYES TEST RESULTS:

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



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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>
Antimony	(Sb)	ND	ND	ND	ND	ND	ND
Arsenic	(As)	ND	ND	ND	ND	ND	ND
Barium	(Ba)	ND	ND	ND	ND	ND	ND
Cadmium	(Cd)	ND	ND	ND	ND	ND	ND
Chromium	(Cr)	ND	ND	ND	ND	ND	ND
Lead	(Pb)	ND	ND	ND	ND	ND	ND
Mercury	(Hg)	ND	ND	ND	ND	ND	ND
Selenium	(Se)	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



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
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
	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 %)

END OF TEST REPORT

