

## TEST RAPORU

**REPORT NUMBER :** TURT190127439  
**APPLICANT NAME** **Bilgi Dağ. Kitap Kırt. ve Büro Malz. Tic. Ltd. Şti.**  
**ADDRESS** Merkez Mah. 29 Ekim Cad.No:53 Bahçelievler/İstanbul  
Tel: 0212 551 00 92 Fax:0212 551 09 57  
**Attention: Efe Yüksel (efe@bilgi-dagitim.com)**  
**SAMPLE DESCRIPTION :** One sample of Liquid glue  
**BUYER :** METRO BTS  
**DATE IN :** 12 July, 2019 (09:59)  
**DATE OUT :** 24 July, 2019  
**MANUFACTURER :** BİLGİ DAĞ KİTAP KIRT. VE BÜRO MALZ. TIC. LTD ŞTİ.  
**ITEM CODE :** BP492-55  
**PHOTO OF PRODUCT TESTED SAMPLE :**



**RESULTS :** See Attachment



Begüm Nazlı Traş  
Customer Care Executive



Zeynep AKIN  
Chemical Laboratory Manager

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190127439

**RESULTS :**

Analysis Parameter	Reference Analysis Method	PASS	FAIL	Norm Limit	Standard for Norm Limit	Tested Part
Migration Of Certain Elements	EN 71-3:2013+A3:2018	P	-	See Toxic Element Analysis	Toys Safety Directive	Part 1-3
Total Phthalate Content	INTERTEK IHTM AL.2.026 based on EN 14372 : 2004 according to REACH Regulation	P	-	DBP/DEHP/BBP : 1000 ppm DINP/DNOP/ DIDP :1000 ppm	KKDIK	Part 1-5
Volatile Organic Compounds Screening	IHTM AL.2.409 with HS-Screening GC/MS	P	-	See Volatile Organic Compounds Screening page	-	Part 1

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

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Part No	Tested Part
1	Transparent glue
2	Multicolor sticker
3	Red plastic cover
4	White soft plastic part
5	Transparent plastic body

Remark: Only suitable parts tested for the related tests.

## MIGRATION OF CERTAIN ELEMENTS

EN 71-3:2013+A3:2018

Acid extraction method was used and migration elements content were determined by Inductively Coupled Plasma-ICP\_MS.

	Results (mg/kg)				Detection Limit (mg/kg)	Requirements (mg/kg) Category II
	Part 1					
Antimony (Sb)	ND				0,125	11,3
Arsenic (As)	ND				0,125	0,9
Barium (Ba)	1.2				0,125	375
Cadmium (Cd)	ND				0,125	0,3
Chromium (III) **	ND				0,125	9,4
Chromium (VI) **	ND				0,005	0,005
Lead (Pb)	0.3				0,125	0.5
Mercury (Hg)	ND				0,0125	1,9
Selenium (Se)	ND				0,125	9,4
Aluminium (Al)	2.7				0,125	1406
Boron (B)	2.4				0,125	300
Cobalt (Co)	ND				0,125	2,6
Copper (Cu)	ND				0,125	156
Manganese (Mn)	ND				0,125	300
Nickel (Ni)	ND				0,125	18,8
Strontium (Sr)	ND				0,125	1125
Tin (Sn)	ND				1,25	3750
Organic tin **	ND				0,125	0,2
Zinc (Zn)	ND				0,125	938

\*\*= Unless the test results were marked with "#" or "Δ", Chromium (III) & Chromium (VI) and Organic tin contents were not directly determined and were derived from migration results of total chromium and tin respectively.

# = Confirmation of Chromium (VI) test was performed on the tested component. And the reported value of migration of Chromium (III) = migration value of total Chromium - migration value of Chromium(VI).

Δ = Confirmation test was performed on the tested component. The reported value was the sum of the migration values of Organotins which are specified Table 3 and Annex J -Table J.1 after converted to Tributyl tin by calculation.

ppm (Part per million) =mg / kg  
< =Less Than  
ND =Not Detected

## MIGRATION OF CERTAIN ELEMENTS

EN 71-3:2013+A3:2018

Acid extraction method was used and migration elements content were determined by Inductively Coupled Plasma-ICP\_MS.

	Results (mg/kg)				Detection Limit (mg/kg)	Requirements (mg/kg) Category III
	Part 2	Part 3				
Antimony (Sb)	ND	ND			0,125	560
Arsenic (As)	ND	ND			0,125	47
Barium (Ba)	6.2	ND			0,125	18750
Cadmium (Cd)	ND	ND			0,125	17
Chromium (III) **	ND	ND			0,125	460
Chromium (VI) **	ND	ND			0,125	0,2
Lead (Pb)	ND	ND			0,125	23
Mercury (Hg)	ND	ND			0,0125	94
Selenium (Se)	ND	ND			0,125	460
Aluminium (Al)	5.1	ND			0,125	70000
Boron (B)	3	ND			0,125	15000
Cobalt (Co)	ND	ND			0,125	130
Copper (Cu)	ND	ND			0,125	7700
Manganese (Mn)	ND	ND			0,125	15000
Nickel (Ni)	ND	ND			0,125	930
Strontium (Sr)	ND	ND			0,125	56000
Tin (Sn)	ND	ND			1,25	180000
Organic tin **	ND	ND			0,125	12
Zinc (Zn)	1.3	1.6			0,125	46000

\*\*= Unless the test results were marked with "#" or "Δ", Chromium (III) & Chromium (VI) and Organic tin contents were not directly determined and were derived from migration results of total chromium and tin respectively.

# = Confirmation of Chromium (VI) test was performed on the tested component. And the reported value of migration of Chromium (III) = migration value of total Chromium - migration value of Chromium(VI).

Δ = Confirmation test was performed on the tested component. The reported value was the sum of the migration values of Organotins which are specified Table 3 and Annex J -Table J.1 after converted to Tributyl tin by calculation.

ppm (Part per million)

=mg / kg

<

=Less Than

ND

=Not Detected

### TOTAL PHTHALATE CONTENT

INTERTEK IHTM AL.2.026 based on EN 14372 : 2004 according to REACH Regulation

	<u>Part 1</u>	<u>Part 2</u>	<u>Part 3&amp;5</u>	<u>Part 4</u>
DIBUTYL PHTHALATE (DBP)	ND	ND	ND	ND
DIETHYL HEXYL PHTHALATE (DEHP)	ND	ND	ND	ND
BENZYL BUTYL PHTHALATE (BBP)	ND	ND	ND	ND
SUM OF THREE PHTHALATES	ND	ND	ND	ND
DI-ISO-NONYL PHTHALATE (DINP)	ND	ND	ND	ND
DI-N-OCTYL PHTHALATE (DNOP)	ND	ND	ND	ND
DI-ISO-DECYL PHTHALATE (DIDP)	ND	ND	ND	ND
SUM OF THREE PHTHALATES	ND	ND	ND	ND

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

**VOLATILE ORGANIC COMPOUNDS**

IHTM AL.2.409 with HS-Screening GC/MS

**Part 1**

SOLVENT NAME	CAS NO.	RESULT
Toluene	108-88-3	Not Detected
Styrene	100-42-6	Not Detected
Butadiene	106-99-1	Not Detected
Kloroetilen (vinil klorür)	75-01-4	Not Detected
Benzene	71-43-3	Not Detected
Aseton	67-64-1	Not Detected
1,1,2 Trikloretan	79-00-5	Not Detected
Perkloretilen (Tetrachloroethene, Tetrachloroethylene, Perchloroethene; Perchloroethylene; Perc; PCE)	127-18-4	Not Detected
1,2 dikloropropan (Propylene dichloride)	78-87-5	Not Detected
1,1,1,2 Tetrakloretan	79-34-5	Not Detected
1,1,1,2 Tetrakloretan	630-20-6	Not Detected
Carbon Tetrachloride	56-23-5	Not Detected
Chloroform	67-66-3	Not Detected
Cyclohexanone	108-94-1	Not Detected
1,2 Dichloroethane	107-06-2	Not Detected
1,1-Dichloroethylene	75-35-4	Not Detected
Dimethylacetamide (DMAC) N,N-Dimethylacetamide	127-19-5	Not Detected
Ethylbenzene	100-41-4	Not Detected
Pentachloroethane	76-01-7	Not Detected
1,1,1-Trichloroethylene	79-01-6	Not Detected
Xylenes (meta-, ortho-, para-)	1330-20-7	Not Detected
	108-38-3	Not Detected
	95-47-6	Not Detected
	106-42-3	Not Detected
1-Methyl-2-pyrrolidone	872-50-4	Not Detected
N,N-Dimetylformamide	68-12-2	Not Detected
1,2,3-trichloropropane	96-18-4	Not Detected
1,1,1-Trichloroethane	71-55-6	Not Detected
Dichloromethane	75-09-2	Not Detected

Detection Limit: 5ppm  
Ppm (part per million): 1 mg/kg  
Requirement : Total 1000 ppm

## END OF TEST REPORT ##