

TEST RAPORU

REPORT NUMBER : TURT190127428
APPLICANT NAME **Bilgi Dağ. Kitap Kırt. ve Büro Malz. Tic. Ltd. Şti.**
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Attention: Efe Yüksel (efe@bilgi-dagitim.com)
SAMPLE DESCRIPTION : One sample of Flexible ruler
BUYER : METRO BTS
DATE IN : 12 July, 2019 (09:59)
DATE OUT : 24 July, 2019
MANUFACTURER : BİLGİ DAĞ KİTAP KIRT. VE BÜRO MALZ. TİC. LTD ŞTİ.
ITEM CODE : BP361-23

PHOTO OF PRODUCT TESTED SAMPLE :



RESULTS : See Attachment



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190127428

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	-	F	See Toxic Element Analysis	Toys Safety Directive	Part 2
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

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	Blue plastic ruler with black print
2	Blue plastic ruler

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 III
	Part 2					
Antimony (Sb)	ND				0,125	560
Arsenic (As)	ND				0,125	47
Barium (Ba)	ND				0,125	18750
Cadmium (Cd)	ND				0,125	17
Chromium (III) **	ND				0,125	460
Chromium (VI) **	ND				0,125	0,2
Lead (Pb)	ND				0,125	23
Mercury (Hg)	ND				0,0125	94
Selenium (Se)	ND				0,125	460
Aluminium (Al)	ND				0,125	70000
Boron (B)	ND				0,125	15000
Cobalt (Co)	ND				0,125	130
Copper (Cu)	ND				0,125	7700
Manganese (Mn)	ND				0,125	15000
Nickel (Ni)	ND				0,125	930
Strontium (Sr)	ND				0,125	56000
Tin (Sn)	8.6 Δ				1,25	180000
Organic tin **	17.2 Δ				0,125	12
Zinc (Zn)	ND				0,125	46000

Organic tin		Part 1 (mg/kg)	Requirement (mg/kg)
Methyl tin	MMT	3	
Butyl tin	MBT	ND	
Dibutyl tin	DBT	0.2	
Tributyl tin	TBT	ND	
Tetrabutyl tin	TeBT	ND	
n-Octyl tin	MOT	0.9	
Di-n-octyl tin	DOT	ND	
Di-n-propyl tin	DPT	0.6	
Diphenyl tin	DPhT	ND	
Triphenyl tin	TPhT	ND	
Dimethyl tin	DMT	14	
TOTAL		17.2	

**= 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

	Part 1
DIBUTYL PHTHALATE (DBP)	ND
DIETHYL HEXYL PHTHALATE (DEHP)	ND
BENZYL BUTYL PHTHALATE (BBP)	ND
SUM OF THREE PHTHALATES	ND
DI-ISO-NONYL PHTHALATE (DINP)	ND
DI-N-OCTYL PHTHALATE (DNOP)	ND
DI-ISO-DECYL PHTHALATE (DIDP)	ND
SUM OF THREE PHTHALATES	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

END OF TEST REPORT