



AB-0716-T

TURT200168104

12-20

TEST REPORT

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REPORT NUMBER : TURT200168104
APPLICANT NAME ZENO ENDÜSTRİ SANAYİ ÜRÜNLERİ ANONİM ŞİRKETİ
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Avcılar/İstanbul
Attention : Nergiz Üstal (nergiz@mutlupatent.com)
SAMPLE DESCRIPTION : One sample of "IQ CUBES" Board Game
DATE IN: 16 December, 2020 (16:35)
DATE OUT : 22 December, 2020
TESTED MODEL NO : -
CLAIMED MODEL NO : -
AGE GRADING : 3+
COUNTRY OF ORIGIN : NOT GIVEN

Ezgi Aleyna Arı
Customer Care Executive

Zeynep Akın
Chemical Laboratory
Manager

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Test Method	Result	Requirements
TEST	Sample	
SAFETY OF TOYS – PART 1: MECHANICAL AND PHYSICAL PROPERTIES	P	
SAFETY OF TOYS – PART 2: FLAMMABILITY	P	
SAFETY OF TOYS – PART 3: MIGRATION OF CERTAIN ELEMENTS	P	
PHthalate Content	P	
POLYCYCLIC AROMATIC HYDROCARBONS (PAHs) ANALYSIS	P	
DETECTION OF AMINES DERIVED FROM AZOCOLLOURANTS AND AZODYES	NA	
BENZENE DETERMINATION	NA	

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

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Test Method	Result	Requirements
PARTS		
1	White square plastic	
2	Blue square plastic	
3	Purple square plastic	
4	Green square plastic	
5	Red square plastic	
6	White plastic bottom plastic part	
7	Brown inner carton	
8	Multicolor square card	
9	White inner carton	
10	Transparent cellophane paper	

Remark: Only suitable parts tested for the related tests.

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Test Method	Result	Requirements
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This report details the clauses appropriate to this item. Those clauses not referred to were considered not applicable.

SAFETY OF TOYS – PART 1: MECHANICAL AND PHYSICAL PROPERTIES

BS EN 71 – 1: 2014 + A1 : 2018

The item was labelled: "Warning! Not suitable for children under 3 years. Small parts. Choking Hazard. Small parts."

The item was tested for children aged over 36 months.

The item was packaging in a cardboard box covered by shrink film which was considered to be disposable.

SECTION	TEST	RESULTS
4	General Requirements	
4.1	Material	Pass
4.7	Edges	Pass
4.8	Point & Metallic Wires	Pass
7	Warning and Instruction for Use	##
7.2	Toys not intended for children under 36 months	Pass

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Test Method	Result	Requirements
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The text of this note is for information only and the indents do not constitute requirements of this European Standard. The information is not exhaustive and Directive 2009/48/EC and the associated guidance documents should be consulted for further details.

The toy or, its packaging or document accompanying must be labelled with:

- The name and address of the manufacturer** **(Not Present)**
- The name and address of the importer.** **(Not Present)**
- Type, batch, serial or model number or other element allowing of toy identification **(Not Present)**
- A CE mark in the correct shape and size. **(Present)**
- Warning and other information should be in the national language(s) of the countries where the toy is marketed.

** In the case of the toy sell in European countries, the toy, its packaging or document accompanying must be labelled with the name and address of the manufacturer and importer.

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Test Method	Result	Requirements
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This report details the clauses appropriate to this item. Those clauses not referred to were considered not applicable.

SAFETY OF TOYS – PART 2: FLAMMABILITY

BS EN 71-2 : 2020

SECTION	TEST	RESULTS
4.1	General	
	Celluloid (cellulose nitrate) and materials with same burning behaviour in fire	Pass

The test results thus obtained can not be considered as providing an overall indication of the potential fire hazard of toys or materials when subjected to other sources of ignition.

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Test Method	Result	Requirements
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SAFETY OF TOYS – PART 3: MIGRATION OF CERTAIN ELEMENTS

BS EN 71-3:2019

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 1	Part 2	Part 3	Part 4		
Antimony (Sb)	ND	ND	ND	ND	0,125	560
Arsenic (As)	ND	ND	ND	ND	0,125	47
Barium (Ba)	ND	ND	ND	ND	0,125	18750
Cadmium (Cd)	ND	ND	ND	ND	0,125	17
Chromium (III)	ND	ND	ND	ND	0,125	460
Chromium (VI)	ND	ND	ND	ND	0,005	0,053
Lead (Pb)	ND	ND	ND	ND	0,125	23
Mercury (Hg)	ND	ND	ND	ND	0,0125	94
Selenium (Se)	ND	ND	ND	ND	0,125	460
Aluminium (Al)	ND	ND	ND	ND	0,125	70000
Boron (B)	ND	ND	ND	ND	0,125	15000
Cobalt (Co)	ND	ND	ND	ND	0,125	130
Copper (Cu)	ND	ND	ND	ND	0,125	7700
Manganese (Mn)	ND	ND	ND	ND	0,125	15000
Nickel (Ni)	ND	ND	ND	ND	0,125	930
Strontium (Sr)	ND	ND	ND	ND	0,125	56000
Tin (Sn)	ND	ND	ND	ND	0,125	180000
Organic tin Δ	ND	ND	ND	ND	0,125	12
Zinc (Zn)	ND	ND	ND	2.5	0,125	46000

Δ = Confirmation test was performed on the tested component. The reported value was the sum of the migration values of Methyl tin, Butyl tin, Dibutyl tin, Tributyl tin, Tetraethyl tin, n-Octyl tin, Di-n-octyl tin, Di-n-propyl tin, Diphenyl tin and Triphenyl tin after converted to Tributyl tin by calculation.

ppm (Part per million)
ND

=mg / kg
=Not Detected

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Test Method	Result	Requirements
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SAFETY OF TOYS – PART 3: MIGRATION OF CERTAIN ELEMENTS

BS EN 71-3:2019

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 5	Part 6	Part 7	Part 8		
Antimony (Sb)	ND	ND	ND	ND	0,125	560
Arsenic (As)	ND	ND	ND	ND	0,125	47
Barium (Ba)	ND	ND	22.6	5.6	0,125	18750
Cadmium (Cd)	ND	ND	ND	ND	0,125	17
Chromium (III)	ND	ND	ND	ND	0,125	460
Chromium (VI)	ND	ND	ND	ND	0,005	0,053
Lead (Pb)	ND	ND	2.4	ND	0,125	23
Mercury (Hg)	ND	ND	ND	ND	0,0125	94
Selenium (Se)	ND	ND	ND	ND	0,125	460
Aluminium (Al)	ND	ND	607.2	20.1	0,125	70000
Boron (B)	ND	ND	44.7	ND	0,125	15000
Cobalt (Co)	ND	ND	ND	1.3	0,125	130
Copper (Cu)	ND	ND	4.4	ND	0,125	7700
Manganese (Mn)	ND	ND	17.6	13.9	0,125	15000
Nickel (Ni)	ND	ND	ND	ND	0,125	930
Strontium (Sr)	ND	ND	53.2	18.8	0,125	56000
Tin (Sn)	ND	ND	ND	ND	0,125	180000
Organic tin Δ	ND	ND	ND	ND	0,125	12
Zinc (Zn)	3.1	2.7	24.4	5.8	0,125	46000

Δ = Confirmation test was performed on the tested component. The reported value was the sum of the migration values of Methyl tin, Butyl tin, Dibutyl tin, Tributyl tin, Tetrabutyl tin, n- Octyl tin, Di-n-octyl tin, Di-n-propyl tin, Diphenyl tin and Triphenyl tin after converted to Tributyl tin by calculation.

ppm (Part per million)
ND

=mg / kg
=Not Detected

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SAFETY OF TOYS – PART 3: MIGRATION OF CERTAIN ELEMENTS

BS EN 71-3:2019

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 9	Part 10				
Antimony (Sb)	ND	ND			0,125	560
Arsenic (As)	ND	ND			0,125	47
Barium (Ba)	18.8	1.4			0,125	18750
Cadmium (Cd)	ND	ND			0,125	17
Chromium (III)	ND	ND			0,125	460
Chromium (VI)	ND	ND			0,005	0,053
Lead (Pb)	1.7	ND			0,125	23
Mercury (Hg)	ND	ND			0,0125	94
Selenium (Se)	ND	ND			0,125	460
Aluminium (Al)	588.7	37.6			0,125	70000
Boron (B)	51.4	5.6			0,125	15000
Cobalt (Co)	ND	ND			0,125	130
Copper (Cu)	5.1	ND			0,125	7700
Manganese (Mn)	16.8	8.6			0,125	15000
Nickel (Ni)	ND	ND			0,125	930
Strontium (Sr)	47.7	37.5			0,125	56000
Tin (Sn)	ND	ND			0,125	180000
Organic tin Δ	ND	ND			0,125	12
Zinc (Zn)	18.6	ND			0,125	46000

Δ = Confirmation test was performed on the tested component. The reported value was the sum of the migration values of Methyl tin, Butyl tin, Dibutyl tin, Tributyl tin, Tetrabutyl tin, n- Octyl tin, Di-n-octyl tin, Di-n-propyl tin, Diphenyl tin and Triphenyl tin after converted to Tributyl tin by calculation.

ppm (Part per million)
ND

=mg / kg
=Not Detected

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Test Method	Result	Requirements
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PHTHALATE CONTENT

INTERTEK IHTM AL.2.026 based on EN 14372 : 2004

Method By Gas Chromatographic- Mass Spectrometric (GC- MS) Analysis

	<u>Part 1&2&3</u>	<u>Part 4&5&6</u>	<u>Part 10</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
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

ND

=Not Detected

ppm (part per million)

=mg / kg

Detection Limit

=DIDP, DINP: 100 ppm, Other Phthalates: 10 ppm

LIMIT (MAX.)

=DBP,DEHP,BBP < 1000 ppm ; DINP, DNOP, DIDP < 1000 ppm

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Test Method	Result	Requirements
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POLYCYCLIC AROMATIC HYDROCARBONS (PAHs) ANALYSIS

AfPS GS 2019:01

	Part 1&2&3	RESULT (mg/kg)	REQUIREMENT
1	Benzo (a) pyrene	Not Detected	0.5 ppm
2	Benzo (e) pyrene	Not Detected	0.5 ppm
3	Benzo (a) anthracene	Not Detected	0.5 ppm
4	Benzo (b) fluoranthene	Not Detected	0.5 ppm
5	Benzo (j) fluoranthene	Not Detected	0.5 ppm
6	Benzo (k) fluoranthene	Not Detected	0.5 ppm
7	Chrysene	Not Detected	0.5 ppm
8	Dibenzo (a,h) anthracene	Not Detected	0.5 ppm

	Part 4&5&6	RESULT (mg/kg)	REQUIREMENT
1	Benzo (a) pyrene	Not Detected	0.5 ppm
2	Benzo (e) pyrene	Not Detected	0.5 ppm
3	Benzo (a) anthracene	Not Detected	0.5 ppm
4	Benzo (b) fluoranthene	Not Detected	0.5 ppm
5	Benzo (j) fluoranthene	Not Detected	0.5 ppm
6	Benzo (k) fluoranthene	Not Detected	0.5 ppm
7	Chrysene	Not Detected	0.5 ppm
8	Dibenzo (a,h) anthracene	Not Detected	0.5 ppm

	Part 10	RESULT (mg/kg)	REQUIREMENT
1	Benzo (a) pyrene	Not Detected	0.5 ppm
2	Benzo (e) pyrene	Not Detected	0.5 ppm
3	Benzo (a) anthracene	Not Detected	0.5 ppm
4	Benzo (b) fluoranthene	Not Detected	0.5 ppm
5	Benzo (j) fluoranthene	Not Detected	0.5 ppm
6	Benzo (k) fluoranthene	Not Detected	0.5 ppm
7	Chrysene	Not Detected	0.5 ppm
8	Dibenzo (a,h) anthracene	Not Detected	0.5 ppm

ppm (part per million) = mg / kg
Detection Limit = 0.1 ppm

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Test Method	Result	Requirements
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SAMPLE PHOTO



TESTED PHOTO



END OF TEST REPORT