AB-0716-T
TURT250059028
05-25

TEST REPORT

REPORT NUMBER : **TURT250059028**

APPLICANT NAME **Bigpoint Kırtasiye San. ve 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@bigpoint.com.tr)**

SAMPLE DESCRIPTION :
Sample 1: One sample of beestar felt-tip pen 12 pcs
Sample 2: One sample of bigpoint felt-tip pen 12 pcs

DATE IN : **29 May, 2025 (13:55)**

RESUBMIT DATE : **04 June, 2025**

DATE OUT : **18 June, 2025**

TESTED MODEL NO :
Sample 1: 2540311
Sample 2: 3024311

CLAIMED MODEL NO:
Sample 1: 2540311
Sample 2: 3024311

COUNTRY OF ORIGIN :
Sample 1: EGYPT
Sample 2: EGYPT

BRAND : BEESTAR, BIGPOINT

MANUFACTURER : PRIMA PENS AND PACKAGING

ITEM NO : 26014899, BP904

PRODUCT NAME: COLOR PEN

Gaye ÇALIŞKAN
Customer Care Executive

İsmail AVCIOĞLU
Toys & Hardline
Laboratory Manager

Emre ÇALIK
Chemical Laboratory Manager

Intertek Test Hizmetleri A.S.
Merkez Mahallesi Sanayi Cad. No: 23 Altındağ Plaza Yenibosna 34197 - ISTANBUL / TURKEY
Phone : +90.212. 496 46 46 Fax : +90.212. 452 80 55
e-mail : intertekcg.turkiye@intertek.com
www.intertek-turkey.com

REPORT : TURT 250059028

18 June, 2025

TEST	Sample 1	Sample 2
SAFETY OF TOYS – PART 1: MECHANICAL AND PHYSICAL PROPERTIES	P	P
SAFETY OF TOYS – PART 2: FLAMMABILITY	P	P
SAFETY OF TOYS – PART 3: MIGRATION OF CERTAIN ELEMENTS	P	P
DETERMINATION OF PHTHALATES MICROWAVE OR SOXHLET EXTRACTION	P	P
PAHS - DETERMINATION OF POLY AROMATIC HYDROCARBONS	P	P
BENZENE DETERMINATION	P	P
DETERMINATION OF CERTAIN AROMATIC AMINES DERIVED FROM AZO COLORANTS	NA	NA

P = MEETS BUYER' S REQUIREMENT (GEÇTİ) / F = DOES NOT MEET BUYER' S REQUIREMENT (KALDI) / NR = NO REQUIREMENT (SINIR DEĞER BELİRTİLMEDİ) / SC=STILL CONTINUES (TEST İŞLEMİ DEVAM EDİYOR) / X=NOT PERFORMED (TEST EDİLMEDİ) / I = INCONCLUSIVE / NC = NO COMMENT / NA= NOT APPLICABLE

SAMPLE	
Sample 1:	One sample of beestar felt-tip pen 12 pcs
Sample 2:	One sample of bigpoint felt-tip pen 12 pcs
PARTS	
1	Dark green plastic body (Sample 1)
2	Light green plastic body (Sample 1)
3	Yellow plastic body (Sample 1)
4	Orange plastic body (Sample 1)
5	Dark pink plastic body (Sample 1)
6	Bordeaux plastic body (Sample 1)
7	Red plastic body (Sample 1)
8	Brown plastic body (Sample 1)
9	Black plastic body (Sample 1)
10	Purple plastic body (Sample 1)
11	Saxe blue plastic body (Sample 1)
12	Light blue plastic body (Sample 1)
13	White coating on body (Sample 1)
14	White plastic cover (Sample 1&2)
15	White felt tip (Sample 1)
16	Dark green plastic body (Sample 2)
17	Light orange plastic body (Sample 2)
18	Neon pink plastic body (Sample 2)
19	Saxe blue plastic body (Sample 2)
20	Silver coating on body (Sample 2)
21	White felt tip (Sample 2)
22	Multicolor printed paper box (Sample 1)
23	Light green inner cartoon (Sample 1&2)
24	Multicolor printed paper box (Sample 2)
25	Dark green dye (Sample 1)
26	Light green dye (Sample 1)
27	Yellow dye (Sample 1)
28	Orange dye (Sample 1)
29	Dark pink dye (Sample 1)
30	Bordeaux dye (Sample 1)
31	Red dye (Sample 1)
32	Brown dye (Sample 1)
33	Black dye (Sample 1)
34	Purple dye (Sample 1)
35	Saxe blue dye (Sample 1)
36	Light blue dye (Sample 1)
37	Dark green dye (Sample 2)
38	Light orange dye (Sample 2)
39	Neon pink dye (Sample 2)
40	Saxe blue dye (Sample 2)
43	Black dye (Sample 2)
44	Bordeaux dye (Sample 2)
45	Red dye (Sample 2)
46	Brown dye (Sample 2)
47	Light blue dye (Sample 2)
48	Yellow dye (Sample 2)

Remark: Only suitable parts tested for the related tests.

SAFETY OF TOYS – PART 1: MECHANICAL AND PHYSICAL PROPERTIES

BS EN 71 – 1: 2014 + A1 : 2018

Sample 1

The item was labelled: “UYARI! BOĞULMA TEHLİKESİ! Küçük parçalar 3 yaşından küçük çocuklar için uygun değildir. (WARNING! CHOKING HAZARD! Small parts not suitable for children under 3 years old).”

The item was tested for children aged over 36 months.

The item was packaging in a cardboard box with a window which was considered to be for disposable.

SECTION	*TEST*	*RESULTS*
4	**General Requirements**	
4.1	**Material**	Pass
4.2	**Assembly**	NA
4.3	**Flexible Plastic Sheeting**	NA
4.4	**Toy Bags**	NA
4.5	**Glass**	NA
4.6	**Expanding Materials**	NA
4.7	**Edges**	Pass
4.8	**Point & Metallic Wires**	Pass
4.9	**Protruding Parts**	NA
4.10	**Parts Moving Against Each Other**	NA
4.11	**Mouth-actuated toys and other toys intended to be put in the mouth**	NA
4.12	**Balloons**	NA
4.13	**Cords of Toy Kites and Other Flying Toys**	NA
4.14	**Enclosures**	NA
4.15	**Toys Intended to Bear the Mass of a Child**	NA
4.16	**Heavy immobile toys**	NA
4.17	**Projctile Toys**	NA
4.18	**Aquatic Toys and Inflatable Toys**	NA
4.19	**Percussion caps specifically designed for use in toys & toys using percussion caps**	NA
4.20	**Acoustics**	NA

SECTION	TEST	RESULTS
4.21	Toys containing a non-electrical heat source	NA
4.22	Small Balls	NA
4.23	Magnets	NA
4.24	Yo-Yo Balls	NA
4.25	Toys Attached to Food	NA
4.26	Toy Disguise Costumes	NA
4.27	Flying toys	NA
5	Toys Intented For Chlldren Under 36 Months	NA
6	Packaging	NA
7	Warning and Instruction for Use	
7.1	General #	Pass
7.2	Toys not intended for children under 36 months	Pass
7.3	Latex Baloons	NA
7.4	Aquatic Toys	NA
7.5	Functional Toys	NA
7.6	Hazardous Sharp Functional Edges and Point	NA
7.7	Projectile Toys	NA
7.8	Imitation Protective Mask and Helmets	NA
7.9	Toy Kites	NA
7.10	Roller skates, inline skates, skateboards and certain other ride-on toys	NA

SECTION	*TEST*	*RESULTS*
7.11	**Toys otherwise intended to be strung across a cradle, cot, or perambulator**	NA
7.12	**Liquid-filled Teethers**	NA
7.13	**Percussion Caps Specifically Designed for Use in Toys**	NA
7.14	**Acoustics**	NA
7.15	**Toy Bicycles**	NA
7.16	**Toys Intended to Bear the Mass of a Child**	NA
7.17	**Toys Comprising Monofilament Fibres**	NA
7.18	**Toy Scooters**	NA
7.19	**Rocking horses and similar toys**	NA
7.20	**Magnetic/electrical experimental sets**	NA
7.21	**Toys with electrical cables exceeding 300 mm in length**	NA
7.22	**Toys with cords or chains intended for children of 18 months and over but under 36 months**	NA
7.23	**Toys intended to be attached to a cradle, cot or perambulator**	NA
7.24	**Sledges with cords for pulling**	NA
7.25	**Flying toys**	NA
7.26	**Improvised projectiles**	NA
A.55	**Toys attached to food**	NA

 # Requirements of clause 7.1 is as below. Only requirements that can be checked (as summited) were considered.
Warnings on toys shall not be misleading or incorrect. Toys intended for children under 36 months shall comply with the requirements in Clause 5. A warning on a toy or its packaging does not release the manufacturer or his authorized representative from the obligation to meet these requirements. A toy shall not bear a warning that conflicts with the intended use of the toy, as determined by virtue of its function, dimension and characteristics.
The warnings shall be preceded by the words “Warning” or “Warnings”, as appropriate (i.e. instead of repeating the word “Warning” before each warning when several of the warnings in Clause 7 are present, the word “Warnings” may be used once). The word “Warning” or “Warnings” may be followed by punctuation, e.g. an exclamation mark.
The manufacturer shall mark the warnings in a clearly visible, easily legible and understandable and accurate manner on the toy, on an affixed label or on the packaging and, if appropriate, include the warnings in the instructions for use.
Manufacturers shall for that purpose consider the good practice given in A.33.
In the following clauses, the location of the warnings is therefore indicated (on the toy itself, on the packaging, in the instructions for use, on an accompanying leaflet). Warnings which determine the decision to purchase the toy shall appear on the consumer packaging or be otherwise clearly visible to the consumer before the purchase.
Small toys that are sold without packaging (for example from a display box or from a vending machine) shall have the appropriate warnings affixed to them. In all cases the warning shall be clearly legible at the point of sale. It is not sufficient to place the warning(s) only on a display box.
For information, it should be noted that the requirement that certain warnings shall be “clearly visible to the consumer at the time of purchase” applies also in cases where the purchase is made on line (e.g. internet) or by catalogue or by other means where the buyer does not have access to the toy at the time of purchase.
In the following subclauses a requirement, that a toy shall carry a warning shall mean that the warning shall appear on the toy itself.

NOTE:
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 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.** **(Present)**

  - Type, batch, serial or model number or other element allowing of toy identification **(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.

*** only English and Turkish language was checked.

* The manufacturer name is not clearly pointed out as manufacturer. It’s recomended to be identified with the title of ‘manufacturer’.

EstImated Total UncertaInty = (±9.8%)

SAFETY OF TOYS – PART 1: MECHANICAL AND PHYSICAL PROPERTIES

BS EN 71 – 1: 2014 + A1 : 2018

Sample 2

The item was labelled: “UYARI! BOĞULMA TEHLİKESİ! Küçük parçalar 3 yaşından küçük çocuklar için uygun değildir. (WARNING! CHOKING HAZARD! Small parts not suitable for children under 3 years old).”

The item was tested for children aged over 36 months.

The item was packaging in a cardboard box with a window which was considered to be for disposable.

SECTION	*TEST*	*RESULTS*
4	**General Requirements**	
4.1	**Material**	Pass
4.2	**Assembly**	NA
4.3	**Flexible Plastic Sheeting**	NA
4.4	**Toy Bags**	NA
4.5	**Glass**	NA
4.6	**Expanding Materials**	NA
4.7	**Edges**	Pass
4.8	**Point & Metallic Wires**	Pass
4.9	**Protruding Parts**	NA
4.10	**Parts Moving Against Each Other**	NA
4.11	**Mouth-actuated toys and other toys intended to be put in the mouth**	NA
4.12	**Balloons**	NA
4.13	**Cords of Toy Kites and Other Flying Toys**	NA
4.14	**Enclosures**	NA
4.15	**Toys Intended to Bear the Mass of a Child**	NA
4.16	**Heavy immobile toys**	NA
4.17	**Projctile Toys**	NA
4.18	**Aquatic Toys and Inflatable Toys**	NA
4.19	**Percussion caps specifically designed for use in toys & toys using percussion caps**	NA
4.20	**Acoustics**	NA

SECTION	*TEST*	*RESULTS*
4.21	**Toys containing a non-electrical heat source**	NA
4.22	**Small Balls**	NA
4.23	**Magnets**	NA
4.24	**Yo-Yo Balls**	NA
4.25	**Toys Attached to Food**	NA
4.26	**Toy Disguise Costumes**	NA
4.27	**Flying toys**	NA
5	**Toys Intented For Chlldren Under 36 Months**	NA
6	**Packaging**	NA
7	**Warning and Instruction for Use**	
7.1	**General #**	Pass
7.2	**Toys not intended for children under 36 months**	Pass
7.3	**Latex Baloons**	NA
7.4	**Aquatic Toys**	NA
7.5	**Functional Toys**	NA
7.6	**Hazardous Sharp Functional Edges and Point**	NA
7.7	**Projectile Toys**	NA
7.8	**Imitation Protective Mask and Helmets**	NA
7.9	**Toy Kites**	NA
7.10	**Roller skates, inline skates, skateboards and certain other ride-on toys**	NA

SECTION	*TEST*	*RESULTS*
7.11	**Toys otherwise intended to be strung across a cradle, cot, or perambulator**	NA
7.12	**Liquid-filled Teethers**	NA
7.13	**Percussion Caps Specifically Designed for Use in Toys**	NA
7.14	**Acoustics**	NA
7.15	**Toy Bicycles**	NA
7.16	**Toys Intended to Bear the Mass of a Child**	NA
7.17	**Toys Comprising Monofilament Fibres**	NA
7.18	**Toy Scooters**	NA
7.19	**Rocking horses and similar toys**	NA
7.20	**Magnetic/electrical experimental sets**	NA
7.21	**Toys with electrical cables exceeding 300 mm in length**	NA
7.22	**Toys with cords or chains intended for children of 18 months and over but under 36 months**	NA
7.23	**Toys intended to be attached to a cradle, cot or perambulator**	NA
7.24	**Sledges with cords for pulling**	NA
7.25	**Flying toys**	NA
7.26	**Improvised projectiles**	NA
A.55	**Toys attached to food**	NA

 # Requirements of clause 7.1 is as below. Only requirements that can be checked (as summited) were considered.

Warnings on toys shall not be misleading or incorrect. Toys intended for children under 36 months shall comply with the requirements in Clause 5. A warning on a toy or its packaging does not release the manufacturer or his authorized representative from the obligation to meet these requirements. A toy shall not bear a warning that conflicts with the intended use of the toy, as determined by virtue of its function, dimension and characteristics.

The warnings shall be preceded by the words “Warning” or “Warnings”, as appropriate (i.e. instead of repeating the word “Warning” before each warning when several of the warnings in Clause 7 are present, the word “Warnings” may be used once). The word “Warning” or “Warnings” may be followed by punctuation, e.g. an exclamation mark.

The manufacturer shall mark the warnings in a clearly visible, easily legible and understandable and accurate manner on the toy, on an affixed label or on the packaging and, if appropriate, include the warnings in the instructions for use.

Manufacturers shall for that purpose consider the good practice given in A.33.

In the following clauses, the location of the warnings is therefore indicated (on the toy itself, on the packaging, in the instructions for use, on an accompanying leaflet). Warnings which determine the decision to purchase the toy shall appear on the consumer packaging or be otherwise clearly visible to the consumer before the purchase.

Small toys that are sold without packaging (for example from a display box or from a vending machine) shall have the appropriate warnings affixed to them. In all cases the warning shall be clearly legible at the point of sale. It is not sufficient to place the warning(s) only on a display box.

For information, it should be noted that the requirement that certain warnings shall be “clearly visible to the consumer at the time of purchase” applies also in cases where the purchase is made on line (e.g. internet) or by catalogue or by other means where the buyer does not have access to the toy at the time of purchase.

In the following subclauses a requirement, that a toy shall carry a warning shall mean that the warning shall appear on the toy itself.

NOTE:

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.

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  - The name and address of the importer.** **(Present)**

  - Type, batch, serial or model number or other element allowing of toy identification **(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.

*** only English and Turkish language was checked.

EstImated Total UncertaInty = (±9.8%)

SAFETY OF TOYS – PART 2: FLAMMABILITY

BS EN 71-2 : 2020

Sample 1

SECTION	*TEST*	*RESULTS*
4.1	**General**	
	Celluloid (cellulose nitrate) and materials with same burning behaviour in fire	Pass
	Materials with a piled surface which produce surface flash	NA
	Flammable gases, extremely flammable liquids, highly flammable liquids, flammable liquids, flammable gels Not applicable, because; highly flammable liquids and flammable liquids being entirely retained within a porous meterial in capillary channels of writing instruments are excluded from the standart.	NA
4.2	**Toys to be worn on the head**	NA
4.3	**Toy disguise costumes and toys intended to be worn by a child in play**	NA
4.4	**Toys intended to be entered by a child**	NA
4.5	**Soft filled toys**	NA

Sample 2

SECTION	*TEST*	*RESULTS*
4.1	**General**	
	Celluloid (cellulose nitrate) and materials with same burning behaviour in fire	Pass
	Materials with a piled surface which produce surface flash	NA
	Flammable gases, extremely flammable liquids, highly flammable liquids, flammable liquids, flammable gels Not applicable, because; highly flammable liquids and flammable liquids being entirely retained within a porous meterial in capillary channels of writing instruments are excluded from the standart.	NA
4.2	**Toys to be worn on the head**	NA
4.3	**Toy disguise costumes and toys intended to be worn by a child in play**	NA
4.4	**Toys intended to be entered by a child**	NA
4.5	**Soft filled toys**	NA

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.

Estimated Total Uncertainty = (±18.6%)

SAFETY OF TOYS - PART 3: MIGRATION OF CERTAIN ELEMENTS

BS EN 71 3:2019+A1
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 (Cr III)	ND	ND	ND	ND	0,125	460
Chromium (VI)	ND	ND	ND	ND	0,025	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)	0.4	0.5	0.4	0.5	0,125	28130
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*	ND	ND	ND	ND	0,02	12
Zinc (Zn)	ND	ND	ND	0.4	0,125	46000

* = Confirmation test was performed on the tested component. The reported value was the sum of the migration values of Dimethyl tin, 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) =mg / kg
ND =Not Detected
(Estimated Total Uncertainty) = Paper - Cr VI: 10%, Org. Tin: 25%, Others: 22%
Scrapable Coating - Cr VI: 10%, Org. Tin: 25%, Others: 22%
Metal - Cr VI: 10%, Org. Tin: 26%, Others: 22%
Crayons - Cr VI: 10%, Org. Tin: 26%, Others: 21%
Plastic - Cr VI: 14%, Org. Tin: 24%, Others: 23%
Liquid Paint - Cr VI: 13%, Org. Tin: 26%, Others: 22%
Textile - Cr VI: 15%, Org. Tin: 25%, Others: 23%

SAFETY OF TOYS - PART 3: MIGRATION OF CERTAIN ELEMENTS

BS EN 71 3:2019+A1
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	ND	ND	0,125	18750
Cadmium (Cd)	ND	ND	ND	ND	0,125	17
Chromium (Cr III)	ND	ND	ND	ND	0,125	460
Chromium (VI)	ND	ND	ND	ND	0,025	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)	0.5	0.5	0.4	0.5	0,125	28130
Boron (B)	ND	ND	ND	ND	0,125	15000
Cobalt (Co)	ND	ND	ND	ND	0,125	130
Copper (Cu)	ND	ND	0.4	0.4	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*	ND	ND	ND	ND	0,02	12
Zinc (Zn)	0.4	0.4	ND	ND	0,125	46000

* = Confirmation test was performed on the tested component. The reported value was the sum of the migration values of Dimethyl tin, 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) =mg / kg
ND =Not Detected
(Estimated Total Uncertainty) = Paper - Cr VI: 10%, Org. Tin: 25%, Others: 22%
Scrapable Coating - Cr VI: 10%, Org. Tin: 25%, Others: 22%
Metal - Cr VI: 10%, Org. Tin: 26%, Others: 22%
Crayons - Cr VI: 10%, Org. Tin: 26%, Others: 21%
Plastic - Cr VI: 14%, Org. Tin: 24%, Others: 23%
Liquid Paint - Cr VI: 13%, Org. Tin: 26%, Others: 22%
Textile - Cr VI: 15%, Org. Tin: 25%, Others: 23%

SAFETY OF TOYS - PART 3: MIGRATION OF CERTAIN ELEMENTS

BS EN 71 3:2019+A1
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	Part 11	Part 12		
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 (Cr III)	ND	ND	ND	ND	0,125	460
Chromium (VI)	ND	ND	ND	ND	0,025	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)	0.4	0.4	0.5	0.4	0,125	28130
Boron (B)	ND	ND	ND	ND	0,125	15000
Cobalt (Co)	ND	ND	ND	ND	0,125	130
Copper (Cu)	0.5	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*	ND	ND	ND	ND	0,02	12
Zinc (Zn)	ND	0.3	0.4	0.3	0,125	46000

* = Confirmation test was performed on the tested component. The reported value was the sum of the migration values of Dimethyl tin, 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) =mg / kg
ND =Not Detected
(Estimated Total Uncertainty) = Paper - Cr VI: 10%, Org. Tin: 25%, Others: 22%
Scrapable Coating - Cr VI: 10%, Org. Tin: 25%, Others: 22%
Metal - Cr VI: 10%, Org. Tin: 26%, Others: 22%
Crayons - Cr VI: 10%, Org. Tin: 26%, Others: 21%
Plastic - Cr VI: 14%, Org. Tin: 24%, Others: 23%
Liquid Paint - Cr VI: 13%, Org. Tin: 26%, Others: 22%
Textile - Cr VI: 15%, Org. Tin: 25%, Others: 23%

SAFETY OF TOYS - PART 3: MIGRATION OF CERTAIN ELEMENTS

BS EN 71 3:2019+A1
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 14	Part 15	Part 16	Part 17		
Antimony (Sb)	ND	2.8	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 (Cr III)	ND	ND	ND	ND	0,125	460
Chromium (VI)	ND	ND	ND	ND	0,025	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)	0.5	ND	0.6	0.4	0,125	28130
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	1	ND	ND	0,125	56000
Tin (Sn)	ND	ND	ND	ND	0,125	180000
Organic tin*	ND	ND	ND	ND	0,02	12
Zinc (Zn)	0.4	0.6	0.5	0.4	0,125	46000

* = Confirmation test was performed on the tested component. The reported value was the sum of the migration values of Dimethyl tin, 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) =mg / kg
ND =Not Detected
(Estimated Total Uncertainty) = Paper - Cr VI: 10%, Org. Tin: 25%, Others: 22%
Scrapable Coating - Cr VI: 10%, Org. Tin: 25%, Others: 22%
Metal - Cr VI: 10%, Org. Tin: 26%, Others: 22%
Crayons - Cr VI: 10%, Org. Tin: 26%, Others: 21%
Plastic - Cr VI: 14%, Org. Tin: 24%, Others: 23%
Liquid Paint - Cr VI: 13%, Org. Tin: 26%, Others: 22%
Textile - Cr VI: 15%, Org. Tin: 25%, Others: 23%

SAFETY OF TOYS - PART 3: MIGRATION OF CERTAIN ELEMENTS

BS EN 71 3:2019+A1
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 18	Part 19	Part 21	Part 22		
Antimony (Sb)	ND	ND	2.9	ND	0,125	560
Arsenic (As)	ND	ND	ND	ND	0,125	47
Barium (Ba)	ND	ND	ND	13.2	0,125	18750
Cadmium (Cd)	ND	ND	ND	ND	0,125	17
Chromium (Cr III)	ND	ND	ND	1.3	0,125	460
Chromium (VI)	ND	ND	ND	ND	0,025	0,053
Lead (Pb)	ND	ND	ND	2	0,125	23
Mercury (Hg)	ND	ND	ND	ND	0,0125	94
Selenium (Se)	ND	ND	ND	ND	0,125	460
Aluminium (Al)	0.3	0.3	ND	128.2	0,125	28130
Boron (B)	ND	ND	ND	1.7	0,125	15000
Cobalt (Co)	ND	ND	ND	ND	0,125	130
Copper (Cu)	ND	ND	ND	4.3	0,125	7700
Manganese (Mn)	ND	ND	ND	6	0,125	15000
Nickel (Ni)	ND	ND	ND	0.3	0,125	930
Strontium (Sr)	ND	ND	1	74.5	0,125	56000
Tin (Sn)	ND	ND	ND	ND	0,125	180000
Organic tin*	ND	ND	ND	ND	0,02	12
Zinc (Zn)	0.4	0.3	0.4	11	0,125	46000

* = Confirmation test was performed on the tested component. The reported value was the sum of the migration values of Dimethyl tin, 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) =mg / kg
ND =Not Detected
(Estimated Total Uncertainty) = Paper - Cr VI: 10%, Org. Tin: 25%, Others: 22%
Scrapable Coating - Cr VI: 10%, Org. Tin: 25%, Others: 22%
Metal - Cr VI: 10%, Org. Tin: 26%, Others: 22%
Crayons - Cr VI: 10%, Org. Tin: 26%, Others: 21%
Plastic - Cr VI: 14%, Org. Tin: 24%, Others: 23%
Liquid Paint - Cr VI: 13%, Org. Tin: 26%, Others: 22%
Textile - Cr VI: 15%, Org. Tin: 25%, Others: 23%

SAFETY OF TOYS - PART 3: MIGRATION OF CERTAIN ELEMENTS

BS EN 71 3:2019+A1
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 23	Part 24				
Antimony (Sb)	ND	ND			0,125	560
Arsenic (As)	ND	ND			0,125	47
Barium (Ba)	41	12.5			0,125	18750
Cadmium (Cd)	ND	ND			0,125	17
Chromium (Cr III)	0.8	1			0,125	460
Chromium (VI)	ND	ND			0,025	0,053
Lead (Pb)	1.5	1.9			0,125	23
Mercury (Hg)	ND	ND			0,0125	94
Selenium (Se)	ND	ND			0,125	460
Aluminium (Al)	449	219.3			0,125	28130
Boron (B)	3	3			0,125	15000
Cobalt (Co)	0.5	ND			0,125	130
Copper (Cu)	3.4	6.1			0,125	7700
Manganese (Mn)	20.4	19.6			0,125	15000
Nickel (Ni)	ND	ND			0,125	930
Strontium (Sr)	65.1	79			0,125	56000
Tin (Sn)	ND	ND			0,125	180000
Organic tin*	ND	ND			0,02	12
Zinc (Zn)	17.5	13			0,125	46000

* = Confirmation test was performed on the tested component. The reported value was the sum of the migration values of Dimethyl tin, 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) =mg / kg
ND =Not Detected
(Estimated Total Uncertainty) = Paper - Cr VI: 10%, Org. Tin: 25%, Others: 22%
Scrapable Coating - Cr VI: 10%, Org. Tin: 25%, Others: 22%
Metal - Cr VI: 10%, Org. Tin: 26%, Others: 22%
Crayons - Cr VI: 10%, Org. Tin: 26%, Others: 21%
Plastic - Cr VI: 14%, Org. Tin: 24%, Others: 23%
Liquid Paint - Cr VI: 13%, Org. Tin: 26%, Others: 22%
Textile - Cr VI: 15%, Org. Tin: 25%, Others: 23%

SAFETY OF TOYS - PART 3: MIGRATION OF CERTAIN ELEMENTS

BS EN 71 3:2019+A1
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 25	Part 26	Part 27	Part 28		
Antimony (Sb)	1.7	1.8	1.5	1.7	0,125	11,3
Arsenic (As)	ND	ND	ND	ND	0,125	0,9
Barium (Ba)	ND	ND	ND	ND	0,125	375
Cadmium (Cd)	ND	ND	ND	ND	0,125	0,3
Chromium (Cr III)	ND	ND	ND	ND	0,125	9,4
Chromium (VI)	ND	ND	ND	ND	0,025	0,005
Lead (Pb)	ND	ND	ND	ND	0,125	0.5
Mercury (Hg)	ND	ND	ND	ND	0,0125	1,9
Selenium (Se)	ND	ND	ND	ND	0,125	9,4
Aluminium (Al)	ND	ND	ND	ND	0,125	560
Boron (B)	ND	ND	ND	ND	0,125	300
Cobalt (Co)	ND	ND	ND	ND	0,125	2,6
Copper (Cu)	ND	ND	ND	ND	0,125	156
Manganese (Mn)	0.3	ND	ND	ND	0,125	300
Nickel (Ni)	ND	ND	ND	ND	0,125	18,8
Strontium (Sr)	ND	ND	ND	0.6	0,125	1125
Tin (Sn)	ND	ND	ND	ND	0,125	3750
Organic tin*	ND	ND	ND	ND	0,02	0,2
Zinc (Zn)	ND	ND	ND	ND	0,125	938

* = Confirmation test was performed on the tested component. The reported value was the sum of the migration values of Dimethyl tin, 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) =mg / kg
ND =Not Detected
(Estimated Total Uncertainty) = Paper - Cr VI: 10%, Org. Tin: 25%, Others: 22%
Scrapable Coating - Cr VI: 10%, Org. Tin: 25%, Others: 22%
Metal - Cr VI: 10%, Org. Tin: 26%, Others: 22%
Crayons - Cr VI: 10%, Org. Tin: 26%, Others: 21%
Plastic - Cr VI: 14%, Org. Tin: 24%, Others: 23%
Liquid Paint - Cr VI: 13%, Org. Tin: 26%, Others: 22%
Textile - Cr VI: 15%, Org. Tin: 25%, Others: 23%

SAFETY OF TOYS - PART 3: MIGRATION OF CERTAIN ELEMENTS

BS EN 71 3:2019+A1
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 29	Part 30	Part 31	Part 32		
Antimony (Sb)	1.3	1.5	1.4	ND	0,125	11,3
Arsenic (As)	ND	ND	ND	ND	0,125	0,9
Barium (Ba)	ND	ND	ND	ND	0,125	375
Cadmium (Cd)	ND	ND	ND	ND	0,125	0,3
Chromium (Cr III)	ND	ND	ND	ND	0,125	9,4
Chromium (VI)	ND	ND	ND	ND	0,025	0,005
Lead (Pb)	ND	ND	ND	ND	0,125	0.5
Mercury (Hg)	ND	ND	ND	ND	0,0125	1,9
Selenium (Se)	ND	ND	ND	ND	0,125	9,4
Aluminium (Al)	ND	0.3	ND	0.5	0,125	560
Boron (B)	ND	ND	ND	ND	0,125	300
Cobalt (Co)	ND	ND	ND	ND	0,125	2,6
Copper (Cu)	ND	ND	ND	0.3	0,125	156
Manganese (Mn)	ND	ND	ND	ND	0,125	300
Nickel (Ni)	ND	ND	ND	ND	0,125	18,8
Strontium (Sr)	ND	0.4	ND	ND	0,125	1125
Tin (Sn)	ND	ND	ND	ND	0,125	3750
Organic tin*	ND	ND	ND	0.6	0,02	0,2
Zinc (Zn)	ND	ND	ND	ND	0,125	938

* = Confirmation test was performed on the tested component. The reported value was the sum of the migration values of Dimethyl tin, 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) =mg / kg
ND =Not Detected
(Estimated Total Uncertainty) = Paper - Cr VI: 10%, Org. Tin: 25%, Others: 22%
Scrapable Coating - Cr VI: 10%, Org. Tin: 25%, Others: 22%
Metal - Cr VI: 10%, Org. Tin: 26%, Others: 22%
Crayons - Cr VI: 10%, Org. Tin: 26%, Others: 21%
Plastic - Cr VI: 14%, Org. Tin: 24%, Others: 23%
Liquid Paint - Cr VI: 13%, Org. Tin: 26%, Others: 22%
Textile - Cr VI: 15%, Org. Tin: 25%, Others: 23%

SAFETY OF TOYS - PART 3: MIGRATION OF CERTAIN ELEMENTS

BS EN 71 3:2019+A1
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 33	Part 34	Part 35	Part 36		
Antimony (Sb)	1.4	1.7	1.9	ND	0,125	11,3
Arsenic (As)	ND	ND	ND	ND	0,125	0,9
Barium (Ba)	ND	ND	ND	ND	0,125	375
Cadmium (Cd)	ND	ND	ND	ND	0,125	0,3
Chromium (Cr III)	0.6	ND	0.7	ND	0,125	9,4
Chromium (VI)	ND	ND	ND	ND	0,025	0,005
Lead (Pb)	ND	ND	ND	ND	0,125	0.5
Mercury (Hg)	ND	ND	ND	ND	0,0125	1,9
Selenium (Se)	ND	ND	ND	ND	0,125	9,4
Aluminium (Al)	ND	ND	0.3	1.9	0,125	560
Boron (B)	1.1	ND	ND	ND	0,125	300
Cobalt (Co)	ND	ND	ND	ND	0,125	2,6
Copper (Cu)	0.4	ND	0.3	0.3	0,125	156
Manganese (Mn)	ND	0.5	0.8	ND	0,125	300
Nickel (Ni)	ND	ND	ND	ND	0,125	18,8
Strontium (Sr)	ND	ND	ND	0.4	0,125	1125
Tin (Sn)	ND	ND	ND	ND	0,125	3750
Organic tin*	ND	ND	ND	ND	0,02	0,2
Zinc (Zn)	ND	ND	0.4	ND	0,125	938

* = Confirmation test was performed on the tested component. The reported value was the sum of the migration values of Dimethyl tin, 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) =mg / kg
ND =Not Detected
(Estimated Total Uncertainty) = Paper - Cr VI: 10%, Org. Tin: 25%, Others: 22%
Scrapable Coating - Cr VI: 10%, Org. Tin: 25%, Others: 22%
Metal - Cr VI: 10%, Org. Tin: 26%, Others: 22%
Crayons - Cr VI: 10%, Org. Tin: 26%, Others: 21%
Plastic - Cr VI: 14%, Org. Tin: 24%, Others: 23%
Liquid Paint - Cr VI: 13%, Org. Tin: 26%, Others: 22%
Textile - Cr VI: 15%, Org. Tin: 25%, Others: 23%

SAFETY OF TOYS - PART 3: MIGRATION OF CERTAIN ELEMENTS

BS EN 71 3:2019+A1
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 37	Part 38	Part 39	Part 40		
Antimony (Sb)	2.7	ND	2.7	2.2	0,125	11,3
Arsenic (As)	ND	ND	ND	ND	0,125	0,9
Barium (Ba)	ND	ND	ND	ND	0,125	375
Cadmium (Cd)	ND	ND	ND	ND	0,125	0,3
Chromium (Cr III)	ND	ND	ND	ND	0,125	9,4
Chromium (VI)	ND	ND	ND	ND	0,025	0,005
Lead (Pb)	ND	ND	ND	ND	0,125	0.5
Mercury (Hg)	ND	ND	ND	ND	0,0125	1,9
Selenium (Se)	ND	ND	ND	ND	0,125	9,4
Aluminium (Al)	0.7	ND	ND	ND	0,125	560
Boron (B)	ND	ND	ND	ND	0,125	300
Cobalt (Co)	ND	ND	ND	ND	0,125	2,6
Copper (Cu)	ND	ND	ND	ND	0,125	156
Manganese (Mn)	ND	ND	ND	ND	0,125	300
Nickel (Ni)	ND	ND	ND	ND	0,125	18,8
Strontium (Sr)	0.4	0.6	ND	0.5	0,125	1125
Tin (Sn)	ND	ND	ND	ND	0,125	3750
Organic tin*	ND	ND	ND	ND	0,02	0,2
Zinc (Zn)	ND	ND	ND	0.5	0,125	938

* = Confirmation test was performed on the tested component. The reported value was the sum of the migration values of Dimethyl tin, 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) =mg / kg
ND =Not Detected
(Estimated Total Uncertainty) = Paper - Cr VI: 10%, Org. Tin: 25%, Others: 22%
Scrapable Coating - Cr VI: 10%, Org. Tin: 25%, Others: 22%
Metal - Cr VI: 10%, Org. Tin: 26%, Others: 22%
Crayons - Cr VI: 10%, Org. Tin: 26%, Others: 21%
Plastic - Cr VI: 14%, Org. Tin: 24%, Others: 23%
Liquid Paint - Cr VI: 13%, Org. Tin: 26%, Others: 22%
Textile - Cr VI: 15%, Org. Tin: 25%, Others: 23%

SAFETY OF TOYS - PART 3: MIGRATION OF CERTAIN ELEMENTS

BS EN 71 3:2019+A1
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 41	Part 42	Part 43	Part 44		
Antimony (Sb)	2.3	3.6	2.6	2.3	0,125	11,3
Arsenic (As)	ND	ND	ND	ND	0,125	0,9
Barium (Ba)	ND	ND	ND	ND	0,125	375
Cadmium (Cd)	ND	ND	ND	ND	0,125	0,3
Chromium (Cr III)	ND	ND	ND	ND	0,125	9,4
Chromium (VI)	ND	ND	ND	ND	0,025	0,005
Lead (Pb)	ND	ND	ND	ND	0,125	0.5
Mercury (Hg)	ND	ND	ND	ND	0,0125	1,9
Selenium (Se)	ND	ND	ND	ND	0,125	9,4
Aluminium (Al)	1.1	0.6	ND	ND	0,125	560
Boron (B)	ND	ND	ND	ND	0,125	300
Cobalt (Co)	ND	ND	ND	ND	0,125	2,6
Copper (Cu)	0.5	ND	ND	ND	0,125	156
Manganese (Mn)	ND	ND	ND	ND	0,125	300
Nickel (Ni)	ND	ND	ND	ND	0,125	18,8
Strontium (Sr)	ND	0.5	0.3	0.6	0,125	1125
Tin (Sn)	ND	ND	ND	ND	0,125	3750
Organic tin*	ND	ND	ND	ND	0,02	0,2
Zinc (Zn)	ND	ND	ND	ND	0,125	938

* = Confirmation test was performed on the tested component. The reported value was the sum of the migration values of Dimethyl tin, 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) =mg / kg
ND =Not Detected
(Estimated Total Uncertainty) = Paper - Cr VI: 10%, Org. Tin: 25%, Others: 22%
Scrapable Coating - Cr VI: 10%, Org. Tin: 25%, Others: 22%
Metal - Cr VI: 10%, Org. Tin: 26%, Others: 22%
Crayons - Cr VI: 10%, Org. Tin: 26%, Others: 21%
Plastic - Cr VI: 14%, Org. Tin: 24%, Others: 23%
Liquid Paint - Cr VI: 13%, Org. Tin: 26%, Others: 22%
Textile - Cr VI: 15%, Org. Tin: 25%, Others: 23%

SAFETY OF TOYS - PART 3: MIGRATION OF CERTAIN ELEMENTS

BS EN 71 3:2019+A1
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 45	Part 46	Part 47	Part 48		
Antimony (Sb)	2.7	ND	1.8	2.6	0,125	11,3
Arsenic (As)	ND	ND	ND	ND	0,125	0,9
Barium (Ba)	ND	ND	ND	ND	0,125	375
Cadmium (Cd)	ND	ND	ND	ND	0,125	0,3
Chromium (Cr III)	ND	ND	ND	ND	0,125	9,4
Chromium (VI)	ND	ND	ND	ND	0,025	0,005
Lead (Pb)	ND	ND	ND	ND	0,125	0.5
Mercury (Hg)	ND	ND	ND	ND	0,0125	1,9
Selenium (Se)	ND	ND	ND	ND	0,125	9,4
Aluminium (Al)	ND	ND	0.6	ND	0,125	560
Boron (B)	ND	ND	ND	ND	0,125	300
Cobalt (Co)	ND	ND	ND	ND	0,125	2,6
Copper (Cu)	ND	ND	ND	ND	0,125	156
Manganese (Mn)	ND	ND	ND	ND	0,125	300
Nickel (Ni)	ND	ND	ND	ND	0,125	18,8
Strontium (Sr)	ND	0.5	0.6	0.5	0,125	1125
Tin (Sn)	ND	ND	ND	ND	0,125	3750
Organic tin*	ND	ND	ND	ND	0,02	0,2
Zinc (Zn)	ND	0.4	1.2	ND	0,125	938

* = Confirmation test was performed on the tested component. The reported value was the sum of the migration values of Dimethyl tin, 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) =mg / kg
ND =Not Detected
(Estimated Total Uncertainty) = Paper - Cr VI: 10%, Org. Tin: 25%, Others: 22%
Scrapable Coating - Cr VI: 10%, Org. Tin: 25%, Others: 22%
Metal - Cr VI: 10%, Org. Tin: 26%, Others: 22%
Crayons - Cr VI: 10%, Org. Tin: 26%, Others: 21%
Plastic - Cr VI: 14%, Org. Tin: 24%, Others: 23%
Liquid Paint - Cr VI: 13%, Org. Tin: 26%, Others: 22%
Textile - Cr VI: 15%, Org. Tin: 25%, Others: 23%

DETERMINATION OF PHTHALATES MICROWAVE OR SOXHLET EXTRACTION

In-House Method – "IHTM AL.2.026. Rev.14" (based on EN 14372 Part 6.3.2) (Using GC-MS)

	CAS No	Part 1&2&3	Part 4&5&6	Part 7&8&9	Part 10&11&12
DIBUTYL PHTHALATE (DBP)	84-74-2	ND	ND	ND	ND
DIETHYL HEXYL PHTHALATE (DEHP)	117-81-7	ND	ND	ND	ND
BENZYL BUTYL PHTHALATE (BBP)	85-68-7	ND	ND	ND	ND
SUM OF THREE PHTHALATES		ND	ND	ND	ND
DI-ISO-NONYL PHTHALATE (DINP)	28553-12-0	ND	ND	ND	ND
DI-N-OCTYL PHTHALATE (DNOP)	117-84-0	ND	ND	ND	ND
DI-ISO-DECYL PHTHALATE (DIDP)	26761-40-0	ND	ND	ND	ND
SUM OF THREE PHTHALATES		ND	ND	ND	ND

	CAS No	Part 13&20	Part 14&16&17	Part 15&21	Part 18&19
DIBUTYL PHTHALATE (DBP)	84-74-2	ND	ND	ND	ND
DIETHYL HEXYL PHTHALATE (DEHP)	117-81-7	ND	ND	ND	ND
BENZYL BUTYL PHTHALATE (BBP)	85-68-7	ND	ND	ND	ND
SUM OF THREE PHTHALATES		ND	ND	ND	ND
DI-ISO-NONYL PHTHALATE (DINP)	28553-12-0	ND	ND	ND	ND
DI-N-OCTYL PHTHALATE (DNOP)	117-84-0	ND	ND	ND	ND
DI-ISO-DECYL PHTHALATE (DIDP)	26761-40-0	ND	ND	ND	ND
SUM OF THREE PHTHALATES		ND	ND	ND	ND

ND =Not Detected
ppm (part per million) =mg / kg
Detection Limit =DIDP, DINP: 100 ppm, Other Phthalates: 10 ppm
LIMIT =DBP,DEHP,BBP < 1000 ppm ; DINP, DNOP, DIDP < 1000 ppm

Estimated Total Uncertainty = (±17%)

POLYCYCLIC AROMATIC HYDROCARBONS (PAHs) ANALYSIS

In-House Method – "IHTM AL.2.032 Rev.15" (Based on AfPS GS and EN 17132) (Using GC-MS)

	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 7&8&9	**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

Estimated Total Uncertainty = (Textile:±15%, Plastic:±17%)

POLYCYCLIC AROMATIC HYDROCARBONS (PAHs) ANALYSIS

In-House Method – "IHTM AL.2.032 Rev.15" (Based on AfPS GS and EN 17132) (Using GC-MS)

	Part 10&11&12	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 14&16&17	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 15&21	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

Estimated Total Uncertainty = (Textile:±15%, Plastic:±17%)

POLYCYCLIC AROMATIC HYDROCARBONS (PAHs) ANALYSIS

In-House Method – "IHTM AL.2.032 Rev.15" (Based on AfPS GS and EN 17132) (Using GC-MS)

	Part 18&19	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

Estimated Total Uncertainty = (Textile:±15%, Plastic:±17%)

BENZENE DETERMINATION

In-house method – “IHTM AL.2.409. Rev.2” (Based on EPA 5000 & EPA 5021A) (Using GC-MS Headspace)

Part 15

Substances	RESULT (ppm)	REQUIREMENT (ppm)
Benzene	Not Detected	5 ppm

Part 21

Substances	RESULT (ppm)	REQUIREMENT (ppm)
Benzene	Not Detected	5 ppm

ppm (part per million) = mg / kg
Detection Limit = 5 ppm

Estimated Total Uncertainty = (Plastic: ±25% ; Liquid: ±21% ; Textile: ±27%)

SAMPLE PHOTO

Sample 1

Sample 2

END OF TEST REPORT

Intertek Test Hizmetleri A.S.
Merkez Mahallesi Sanayi Cad. No: 23 Altındağ Plaza Yenibosna 34197 - ISTANBUL / TURKEY
Phone : +90.212. 496 46 46 Fax : +90.212. 452 80 55
e-mail : intertekcg.turkiye@intertek.com
www.intertek-turkey.com