TEST REPORT

AB-0505-T
72232750159
10-23

LAB LOCATION: TURKEY
LAB NO.: (7223)275-0159
SERVICE TYPE: Regular
DATE IN: October 03, 2023
DATE OUT: October 10, 2023

MATERIAL SUBMITTED	:	TC TİCARET BAKANLIĞI İSTANBUL GÜMRÜK VE DIŞ TİCARET BÖLGE MÜDÜRLÜĞÜ İSTANBUL ÜRÜN GÜVENLİĞİ DENETİMLERİ MÜDÜRLÜĞÜ-1 (Avrupa) (Attn: Mustafa BİSKİN)
IMPORTER COMPANY	:	BIGPOINT KIRTASIYE SANAYI VE TICARET LTD. STI.
MODEL NO	:	LT740
COVER LETTER NO	:	E-98552271-554.01.01-00089495303
SAMPLE RECORD NO	:	/
APPLICATION NO	:	A25256421
SUPPLIER REFERENCE	:	/
TESTED AGE GRADE	:	Over 36 M
LABELLED AGE GRADE	:	Over 36 M
APPLIED AGE GRADE	:	/
SAMPLE DESCRIPTION	:	**Sample A:** TOY
BRAND of SAMPLES	:	/
SUBMITTED CARE INSTRUCTION	:	**/**
GENERAL CONCLUSION	:	**PASS**

C/N GK/GGY

BV CPS Test Laboratuvarları Ltd. Sti. accredited by TÜRKAK under registration number AB-0505-T for TS EN ISO/IEC 17025:2017 as test laboratory. Turkish Accreditation Agency (TURKAK) is a signatory to the European co-operation for Accreditation (EA) Multilateral Agreement (MLA) and to the International Laboratory Accreditation Cooperation (ILAC) Mutual Recognition Arrangement (MRA) for the recognition of test reports.

BV CPS TEST LABORATUVARLARI LTD. STI.
BUREAU VERITAS CONSUMER PRODUCTS SERVICES
Yalcin Kores Cad. No:22 Erdinc Binalari
A Blok 1.Kule 1.Kat 34209 Gunesli, Istanbul / Turkey
Tel:+90.212.494 35 35 Fax:+90.212.494 35 60
email:info.turkey@bvcps.com.tr
website: www.bureauveritas.com/cps

SUMMARY OF TEST RESULTS

TEST PERFORMED	PASS	FAIL
EN 71-1: 2014 + A1:2018 Physical and Mechanical Properties* (See Remark for Accreditation Scope)	X	
EN 71-2: 2020 Flammability*	X	
EN 71-3:2019 + A1:2021 Migration of Certain Elements*	X	
EN 71-3:2019 + A1:2021 Migration of Certain Elements Chromium III and Chromium VI Confirmation*	X	
Polycyclic Aromatic Hydrocarbons (PAHs)*	X	
Phthalates*	X	
*** TURKAK Accredited- See Appendix A**		

*= The reported expanded uncertainty is based on the standard uncertainty multiplied by a coverage factor of k=2, providing a level of confidence of approximately 95%.Unless otherwise is specified, the uncertainty of measurement has not been taken into account when assessing pass/fail of the sample against the requirements of the standard. In case consideration of measurement uncertainties when assessing pass/ fail limits, some results may be in borderline. Information on uncertainty is contained in appendix A on this report.

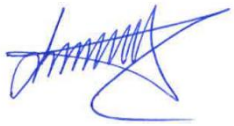
REMARK:

I. If there are questions or concerns on this report, please contact:

+90 212 494 35 35
gaye.yildiz@bureauveritas.com

Bureau Veritas Consumer Products Services Turkey
BV CPS Test Lab. Ltd. Sti.

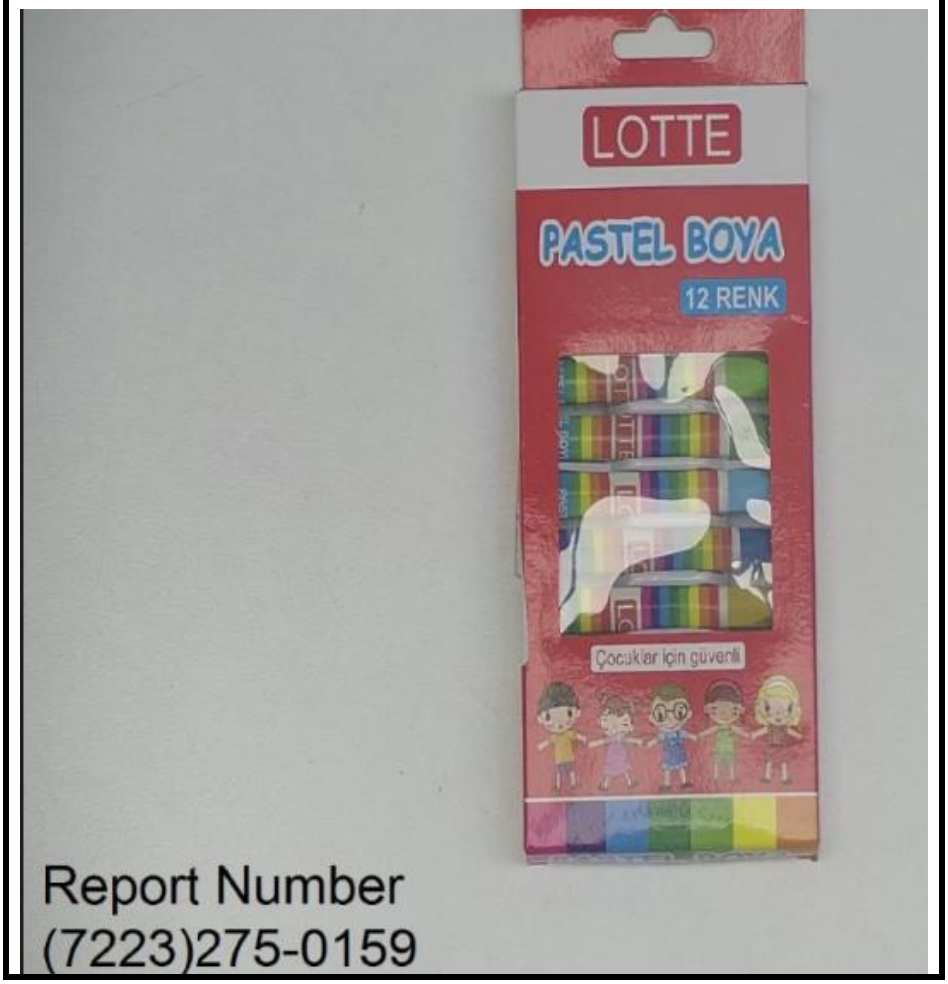
Gaye Gizem Yıldız
Asst. Client Team Lead



Hasan Altingul
Operation Manager - CS & Support

-Photos of the Submitted Sample-

Sample A



TEST RESULT

EN 71-1: 2014 + A1:2018 PHYSICAL AND MECHANICAL PROPERTIES OF TOYS

Clause	Clause Description	Test Method	RESULT
4	**General Requirements**	-	**Sample A**
4.1	Material Cleanliness	-	Pass
4.7 & 7.6	Edges	8.11	Pass
4.8 & 7.6	Points And Metallic Wires	8.12, 8.13	Pass
4.8e	Splinters	8.12, 8.13	Pass
	WARNINGS, INSTRUCTIONS FOR USE		
7	Ce Mark	-	Present
7	Manufacturer/ Importer Name And Address		Present
7	Product Identification	-	Present
7.1	General	-	Present
7.2	Toys Not Intended For Children Under 36 Months	-	Present

Remark: The methods and clauses indicated with sign **"#"** are not at the scope of ISO 17025 accreditation.

TEST RESULT

EN 71-2:2020 FLAMMABILITY OF TOYS

Clause	Clause Description	RESULT Sample A
4.1	General Requirements	Pass

Remark: Flammable Gases and Liquids samples which have over 15 ml volume are not at the scope of ISO 17025 accreditation

SAMPLE DESCRIPTION ASSIGNED BY LABORATORY:

Test Item	Sample Description
I001	Red Crayon
I002	Orange Crayon
I003	Nude Crayon
I004	Yellow Crayon
I005	Light Green Crayon
I006	Dark Green Crayon
I007	Blue Crayon
I008	Dark Blue Crayon
I009	Light Brown Crayon
I010	Dark Brown Crayon
I011	Black Crayon
I012	White Crayon
I013	White Print On Paper
I014	Red Print On Paper
I015	Orange Print On Paper
I016	Yellow Print On Paper
I017	Light Green Print On Paper
I018	Dark Green Print On Paper
I019	Blue Print On Paper
I020	Purple Print On Paper
I021	Red Box
I022	White Detail On Box
I023	Blue Detail On Box
I024	Pink Print On Box
I025	Purple Print On Box
I026	Yellow Print On Box
I027	Green Print On Box
I028	Orange Print On Box
I029	Black Print On Box
I030	Information Print On Box
I031	Yellow t-shirt Children
I032	Pink T-shirt Children
I033	Blue T-shirt Children
I034	Green T shirt Children
I035	Red T shirt Children
I036	Transparent Window
I037	White Plastic Box
I038	Crayon Paper
I039	Red Crayon Box

TEST RESULT

EN 71-3:2019 + A1:2021 MIGRATION OF CERTAIN ELEMENTS

Test Method **:** European Standard EN 71-3:2019+A1:2021

See Soluble Element (Parameter) and its corresponding Maximum Allowable Limit (Req.) in Result Table	**Type I**	**Dry, brittle, powder-like or pliable toy material**
	Type II	**Liquid or sticky toy material**
	Type III	**Scraped-off toy material**

	Unit	Req.	Result				
Test Item(s)	-	-	**I001**	**I002**	**I003**	**I004**	**I005**
Type	-	I	I	I	I	I	I
Parameter	-	-	-	-	-	-	-
Aluminium (Al)	mg/kg	2250	ND	ND	ND	ND	ND
Antimony (Sb)	mg/kg	45	ND	ND	ND	ND	ND
Arsenic (As)	mg/kg	3.8	ND	ND	ND	ND	ND
Barium (Ba)	mg/kg	1500	5.66	ND	ND	ND	ND
Boron (B)	mg/kg	1200	ND	ND	ND	ND	ND
Cadmium (Cd)	mg/kg	1.3	ND	ND	ND	ND	ND
Chromium III (Cr III)	mg/kg	37.5	ND	ND	ND	ND	ND
Chromium VI (Cr VI)	mg/kg	0.02	ND	ND	ND	ND	ND
Cobalt (Co)	mg/kg	10.5	ND	ND	ND	ND	ND
Copper (Cu)	mg/kg	622.5	ND	ND	ND	ND	ND
Lead (Pb)	mg/kg	2.0	ND	ND	ND	ND	ND
Manganese (Mn)	mg/kg	1200	ND	ND	ND	ND	ND
Mercury (Hg)	mg/kg	7.5	ND	ND	ND	ND	ND
Nickel (Ni)	mg/kg	75	ND	ND	ND	ND	ND
Selenium (Se)	mg/kg	37.5	ND	ND	ND	ND	ND
Strontium (Sr)	mg/kg	4500	ND	ND	ND	ND	ND
Tin (Sn)	mg/kg	15000	ND	ND	ND	ND	ND
Organic tin	mg/kg	0.9	ND	ND	ND	ND	ND
Zinc (Zn)	mg/kg	3750	ND	ND	ND	ND	ND
Conclusion	-	-	**PASS**	**PASS**	**PASS**	**PASS**	**PASS**

Note:

ND = Not detected
">" = Greater than
Conc. = Concentration
mg/kg = milligram(s) per kilogram
mg/kg = ppm = part(s) per million
10 000 mg/kg = 1 %
% = percent
mcg/sq. m = microgram per square metre
Detection Limit (mg/kg) :
For Type I and Type II - Al : 2 ; Sb : 2 ; As : 0.15 ; Ba : 2 ; B : 2 ; Cd : 0.15 ; Cr III : 0.15 ; Cr VI : 0.005 [0.002] ; Co : 2 ; Cu : 2 ; Pb : 0.5 ; Mn : 2 ;
Hg : 0.15 ; Ni : 2 ; Se : 2 ; Sr : 2 ; Sn : 2 ; Organic tin : 0.04 ; Zn : 2
For Type III - Al : 2 ; Sb : 2 ; As : 2 ; Ba : 2 ; B : 2 ; Cd : 2 ; Cr III : 0.15 ; Cr VI : 0.05 [0.002] ; Co : 2 ; Cu : 2 ; Pb : 2 ; Mn : 2 ; Hg : 2 ; Ni : 2 ; Se : 2 ; Sr : 2 ; Sn : 2 ; Organic tin : 2 ; Zn : 2

Remark:

-

TEST RESULT

EN 71-3:2019 + A1:2021 MIGRATION OF CERTAIN ELEMENTS

Test Method **:** European Standard EN 71-3:2019+A1:2021

See Soluble Element (Parameter) and its corresponding Maximum Allowable Limit (Req.) in Result Table	**Type I**	**Dry, brittle, powder-like or pliable toy material**
	Type II	**Liquid or sticky toy material**
	Type III	**Scraped-off toy material**

	Unit	Req.	Result				
Test Item(s)	-	-	**I006**	**I007**	**I008**	**I009**	**I010**
Type	-	I	I	I	I	I	I
Parameter	-	-	-	-	-	-	-
Aluminium (Al)	mg/kg	2250	ND	ND	ND	ND	ND
Antimony (Sb)	mg/kg	45	ND	ND	ND	ND	ND
Arsenic (As)	mg/kg	3.8	ND	ND	ND	ND	ND
Barium (Ba)	mg/kg	1500	ND	ND	ND	ND	ND
Boron (B)	mg/kg	1200	ND	ND	ND	ND	ND
Cadmium (Cd)	mg/kg	1.3	ND	ND	ND	ND	ND
Chromium III (Cr III)	mg/kg	37.5	ND	ND	ND	ND	ND
Chromium VI (Cr VI)	mg/kg	0.02	ND	ND	ND	ND	ND
Cobalt (Co)	mg/kg	10.5	ND	ND	ND	ND	ND
Copper (Cu)	mg/kg	622.5	ND	ND	ND	ND	ND
Lead (Pb)	mg/kg	2.0	ND	ND	ND	ND	ND
Manganese (Mn)	mg/kg	1200	ND	ND	ND	ND	ND
Mercury (Hg)	mg/kg	7.5	ND	ND	ND	ND	ND
Nickel (Ni)	mg/kg	75	ND	ND	ND	ND	ND
Selenium (Se)	mg/kg	37.5	ND	ND	ND	ND	ND
Strontium (Sr)	mg/kg	4500	ND	ND	ND	ND	ND
Tin (Sn)	mg/kg	15000	ND	ND	ND	ND	ND
Organic tin	mg/kg	0.9	ND	ND	ND	ND	ND
Zinc (Zn)	mg/kg	3750	ND	ND	ND	ND	ND
Conclusion	-	-	**PASS**	**PASS**	**PASS**	**PASS**	**PASS**

Note:

ND = Not detected
">" = Greater than
Conc. = Concentration
mg/kg = milligram(s) per kilogram
mg/kg = ppm = part(s) per million
10 000 mg/kg = 1 %
% = percent
mcg/sq. m = microgram per square metre

Detection Limit (mg/kg) :
For Type I and Type II - Al : 2 ; Sb : 2 ; As : 0.15 ; Ba : 2 ; B : 2 ; Cd : 0.15 ; Cr III : 0.15 ; Cr VI : 0.005 [0.002] ; Co : 2 ; Cu : 2 ; Pb : 0.5 ; Mn : 2 ;
Hg : 0.15 ; Ni : 2 ; Se : 2 ; Sr : 2 ; Sn : 2 ; Organic tin : 0.04 ; Zn : 2
For Type III - Al : 2 ; Sb : 2 ; As : 2 ; Ba : 2 ; B : 2 ; Cd : 2 ; Cr III : 0.15 ; Cr VI : 0.05 [0.002] ; Co : 2 ; Cu : 2 ; Pb : 2 ; Mn : 2 ; Hg : 2 ; Ni : 2 ; Se : 2 ; Sr : 2 ; Sn : 2 ; Organic tin : 2 ; Zn : 2

Remark:

TEST RESULT

EN 71-3:2019 + A1:2021 MIGRATION OF CERTAIN ELEMENTS

Test Method **:** European Standard EN 71-3:2019+A1:2021

See Soluble Element (Parameter) and its corresponding Maximum Allowable Limit (Req.) in Result Table	**Type I**	**Dry, brittle, powder-like or pliable toy material**
	Type II	**Liquid or sticky toy material**
	Type III	**Scraped-off toy material**

	Unit	**Req.**	**Result**	
Test Item(s)	-	-	**I011**	**I012**
Type	-	I	I	I
Parameter	-	-	-	-
Aluminium (Al)	mg/kg	2250	ND	ND
Antimony (Sb)	mg/kg	45	ND	ND
Arsenic (As)	mg/kg	3.8	ND	ND
Barium (Ba)	mg/kg	1500	ND	ND
Boron (B)	mg/kg	1200	ND	ND
Cadmium (Cd)	mg/kg	1.3	ND	ND
Chromium III (Cr III)	mg/kg	37.5	ND	ND
Chromium VI (Cr VI)	mg/kg	0.02	ND	ND
Cobalt (Co)	mg/kg	10.5	ND	ND
Copper (Cu)	mg/kg	622.5	ND	ND
Lead (Pb)	mg/kg	2.0	ND	ND
Manganese (Mn)	mg/kg	1200	ND	ND
Mercury (Hg)	mg/kg	7.5	ND	ND
Nickel (Ni)	mg/kg	75	ND	ND
Selenium (Se)	mg/kg	37.5	ND	ND
Strontium (Sr)	mg/kg	4500	ND	ND
Tin (Sn)	mg/kg	15000	ND	ND
Organic tin	mg/kg	0.9	ND	ND
Zinc (Zn)	mg/kg	3750	ND	ND
Conclusion	-	-	**PASS**	**PASS**

Note:

ND = Not detected
">" = Greater than
Conc. = Concentration
mg/kg = milligram(s) per kilogram
mg/kg = ppm = part(s) per million
10 000 mg/kg = 1 %
% = percent
mcg/sq. m = microgram per square metre
Detection Limit (mg/kg) :
For Type I and Type II - Al : 2 ; Sb : 2 ; As : 0.15 ; Ba : 2 ; B : 2 ; Cd : 0.15 ; Cr III : 0.15 ; Cr VI : 0.005 [0.002] ; Co : 2 ; Cu : 2 ; Pb : 0.5 ; Mn : 2 ;
Hg : 0.15 ; Ni : 2 ; Se : 2 ; Sr : 2 ; Sn : 2 ; Organic tin : 0.04 ; Zn : 2
For Type III - Al : 2 ; Sb : 2 ; As : 2 ; Ba : 2 ; B : 2 ; Cd : 2 ; Cr III : 0.15 ; Cr VI : 0.05 [0.002] ; Co : 2 ; Cu : 2 ; Pb : 2 ; Mn : 2 ; Hg : 2 ; Ni : 2 ; Se : 2 ; Sr : 2 ; Sn : 2 ; Organic tin : 2 ; Zn : 2

Remark:

TEST RESULT

EN 71-3:2019 + A1:2021 MIGRATION OF CERTAIN ELEMENTS

Test Method **:** European Standard EN 71-3:2019+A1:2021

See Soluble Element (Parameter) and its corresponding Maximum Allowable Limit (Req.) in Result Table	**Type I**	**Dry, brittle, powder-like or pliable toy material**
	Type II	**Liquid or sticky toy material**
	Type III	**Scraped-off toy material**

	Unit	Req.	Result		
Test Item(s)	-	-	**I013**	**I014**	**I015**
Type	-	III	III	III	III
Parameter	-	-	-	-	-
Aluminium (Al)	mg/kg	28130	8.29	6.23	6.80
Antimony (Sb)	mg/kg	560	ND	ND	ND
Arsenic (As)	mg/kg	47	ND	ND	ND
Barium (Ba)	mg/kg	18750	ND	ND	ND
Boron (B)	mg/kg	15000	ND	ND	ND
Cadmium (Cd)	mg/kg	17	ND	ND	ND
Chromium III (Cr III)	mg/kg	460	ND	ND	ND
Chromium VI (Cr VI)	mg/kg	0.053	ND	ND	ND
Cobalt (Co)	mg/kg	130	ND	ND	ND
Copper (Cu)	mg/kg	7700	ND	ND	ND
Lead (Pb)	mg/kg	23	ND	ND	ND
Manganese (Mn)	mg/kg	15000	ND	ND	ND
Mercury (Hg)	mg/kg	94	ND	ND	ND
Nickel (Ni)	mg/kg	930	ND	ND	ND
Selenium (Se)	mg/kg	460	ND	ND	ND
Strontium (Sr)	mg/kg	56000	4.63	3.41	3.80
Tin (Sn)	mg/kg	180000	ND	ND	ND
Organic tin	mg/kg	12	ND	ND	ND
Zinc (Zn)	mg/kg	46000	ND	ND	ND
Conclusion	-	-	**PASS**	**PASS**	**PASS**

Note:

ND = Not detected
">" = Greater than
Conc. = Concentration
mg/kg = milligram(s) per kilogram
mg/kg = ppm = part(s) per million
10 000 mg/kg = 1 %
% = percent
mcg/sq. m = microgram per square metre

Detection Limit (mg/kg) :
For Type I and Type II - Al : 2 ; Sb : 2 ; As : 0.15 ; Ba : 2 ; B : 2 ; Cd : 0.15 ; Cr III : 0.15 ; Cr VI : 0.005 [0.002] ; Co : 2 ; Cu : 2 ; Pb : 0.5 ; Mn : 2 ;
Hg : 0.15 ; Ni : 2 ; Se : 2 ; Sr : 2 ; Sn : 2 ; Organic tin : 0.04 ; Zn : 2
For Type III - Al : 2 ; Sb : 2 ; As : 2 ; Ba : 2 ; B : 2 ; Cd : 2 ; Cr III : 0.15 ; Cr VI : 0.05 [0.002] ; Co : 2 ; Cu : 2 ; Pb : 2 ; Mn : 2 ; Hg : 2 ; Ni : 2 ; Se : 2 ; Sr : 2 ; Sn : 2 ; Organic tin : 2 ; Zn : 2

Remark:

TEST RESULT

EN 71-3:2019 + A1:2021 MIGRATION OF CERTAIN ELEMENTS

Test Method **:** European Standard EN 71-3:2019+A1:2021

See Soluble Element (Parameter) and its corresponding Maximum Allowable Limit (Req.) in Result Table	**Type I**	**Dry, brittle, powder-like or pliable toy material**
	Type II	**Liquid or sticky toy material**
	Type III	**Scraped-off toy material**

	Unit	Req.	Result				
Test Item(s)	-	-	**I016**	**I017**	**I018**	**I019**	**I020**
Type	-	III	III	III	III	III	III
Parameter	-	-	-	-	-	-	-
Aluminium (Al)	mg/kg	28130	6.36	5.34	8.29	8.20	7.15
Antimony (Sb)	mg/kg	560	ND	ND	ND	ND	ND
Arsenic (As)	mg/kg	47	ND	ND	ND	ND	ND
Barium (Ba)	mg/kg	18750	ND	ND	ND	ND	ND
Boron (B)	mg/kg	15000	ND	ND	ND	ND	ND
Cadmium (Cd)	mg/kg	17	ND	ND	ND	ND	ND
Chromium III (Cr III)	mg/kg	460	ND	ND	ND	ND	ND
Chromium VI (Cr VI)	mg/kg	0.053	ND	ND	ND	ND	ND
Cobalt (Co)	mg/kg	130	ND	ND	ND	ND	ND
Copper (Cu)	mg/kg	7700	ND	ND	ND	ND	ND
Lead (Pb)	mg/kg	23	ND	ND	ND	ND	ND
Manganese (Mn)	mg/kg	15000	ND	ND	ND	ND	ND
Mercury (Hg)	mg/kg	94	ND	ND	ND	ND	ND
Nickel (Ni)	mg/kg	930	ND	ND	ND	ND	ND
Selenium (Se)	mg/kg	460	ND	ND	ND	ND	ND
Strontium (Sr)	mg/kg	56000	3.48	3.13	4.44	4.39	3.83
Tin (Sn)	mg/kg	180000	ND	ND	ND	ND	ND
Organic tin	mg/kg	12	ND	ND	ND	ND	ND
Zinc (Zn)	mg/kg	46000	ND	ND	ND	ND	ND
Conclusion	-	-	**PASS**	**PASS**	**PASS**	**PASS**	**PASS**

Note:

ND = Not detected
"<" = Greater than
Conc. = Concentration
mg/kg = milligram(s) per kilogram
mg/kg = ppm = part(s) per million
10 000 mg/kg = 1 %
% = percent
mcg/sq. m = microgram per square metre
Detection Limit (mg/kg) :
For Type I and Type II - Al : 2 ; Sb : 2 ; As : 0.15 ; Ba : 2 ; B : 2 ; Cd : 0.15 ; Cr III : 0.15 ; Cr VI : 0.005 [0.002] ; Co : 2 ; Cu : 2 ; Pb : 0.5 ; Mn : 2 ;
Hg : 0.15 ; Ni : 2 ; Se : 2 ; Sr : 2 ; Sn : 2 ; Organic tin : 0.04 ; Zn : 2
For Type III - Al : 2 ; Sb : 2 ; As : 2 ; Ba : 2 ; B : 2 ; Cd : 2 ; Cr III : 0.15 ; Cr VI : 0.05 [0.002] ; Co : 2 ; Cu : 2 ; Pb : 2 ; Mn : 2 ; Hg : 2 ; Ni : 2 ; Se : 2 ; Sr : 2 ; Sn : 2 ; Organic tin : 2 ; Zn : 2

Remark:

-

TEST RESULT

EN 71-3:2019 + A1:2021 MIGRATION OF CERTAIN ELEMENTS

Test Method **:** European Standard EN 71-3:2019+A1:2021

See Soluble Element (Parameter) and its corresponding Maximum Allowable Limit (Req.) in Result Table	**Type I**	**Dry, brittle, powder-like or pliable toy material**
	Type II	**Liquid or sticky toy material**
	Type III	**Scraped-off toy material**

	Unit	Req.	Result				
Test Item(s)	-	-	**I021**	**I022**	**I023**	**I024**	**I025**
Type	-	III	III	III	III	III	III
Parameter	-	-	-	-	-	-	-
Aluminium (Al)	mg/kg	28130	88.40	103.72	111.65	99.19	124.61
Antimony (Sb)	mg/kg	560	ND	ND	ND	ND	ND
Arsenic (As)	mg/kg	47	ND	ND	ND	ND	ND
Barium (Ba)	mg/kg	18750	ND	ND	2.05	ND	ND
Boron (B)	mg/kg	15000	ND	ND	ND	ND	ND
Cadmium (Cd)	mg/kg	17	ND	ND	ND	ND	ND
Chromium III (Cr III)	mg/kg	460	0.1	0.1	0.11	0.1	0.11
Chromium VI (Cr VI)	mg/kg	0.053	ND	ND	ND	ND	ND
Cobalt (Co)	mg/kg	130	ND	ND	ND	ND	ND
Copper (Cu)	mg/kg	7700	ND	ND	ND	ND	ND
Lead (Pb)	mg/kg	23	ND	ND	ND	ND	ND
Manganese (Mn)	mg/kg	15000	2.84	3.40	3.68	2.96	3.99
Mercury (Hg)	mg/kg	94	ND	ND	ND	ND	ND
Nickel (Ni)	mg/kg	930	ND	ND	ND	ND	ND
Selenium (Se)	mg/kg	460	ND	ND	ND	ND	ND
Strontium (Sr)	mg/kg	56000	2.63	3.07	3.35	2.78	3.47
Tin (Sn)	mg/kg	180000	ND	ND	ND	ND	ND
Organic tin	mg/kg	12	ND	ND	ND	ND	ND
Zinc (Zn)	mg/kg	46000	ND	ND	2.16	ND	2.48
Conclusion	-	-	**PASS**	**PASS**	**PASS**	**PASS**	**PASS**

Note:

ND = Not detected
">" = Greater than
Conc. = Concentration
mg/kg = milligram(s) per kilogram
mg/kg = ppm = part(s) per million
10 000 mg/kg = 1 %
% = percent
mcg/sq. m = microgram per square metre

Detection Limit (mg/kg) :
For Type I and Type II - Al : 2 ; Sb : 2 ; As : 0.15 ; Ba : 2 ; B : 2 ; Cd : 0.15 ; Cr III : 0.15 ; Cr VI : 0.005 [0.002] ; Co : 2 ; Cu : 2 ; Pb : 0.5 ; Mn : 2 ;
Hg : 0.15 ; Ni : 2 ; Se : 2 ; Sr : 2 ; Sn : 2 ; Organic tin : 0.04 ; Zn : 2
For Type III - Al : 2 ; Sb : 2 ; As : 2 ; Ba : 2 ; B : 2 ; Cd : 2 ; Cr III : 0.15 ; Cr VI : 0.05 [0.002] ; Co : 2 ; Cu : 2 ; Pb : 2 ; Mn : 2 ; Hg : 2 ; Ni : 2 ; Se : 2 ; Sr : 2 ; Sn : 2 ; Organic tin : 2 ; Zn : 2

Remark:

TEST RESULT

EN 71-3:2019 + A1:2021 MIGRATION OF CERTAIN ELEMENTS

Test Method **:** European Standard EN 71-3:2019+A1:2021

See Soluble Element (Parameter) and its corresponding Maximum Allowable Limit (Req.) in Result Table	**Type I**	**Dry, brittle, powder-like or pliable toy material**
	Type II	**Liquid or sticky toy material**
	Type III	**Scraped-off toy material**

	Unit	Req.	Result				
Test Item(s)	-	-	**I026**	**I027**	**I028**	**I029**	**I030**
Type	-	III	III	III	III	III	III
Parameter	-	-	-	-	-	-	-
Aluminium (Al)	mg/kg	28130	71.20	136.63	111	105.8	111.63
Antimony (Sb)	mg/kg	560	ND	ND	ND	ND	ND
Arsenic (As)	mg/kg	47	ND	ND	ND	ND	ND
Barium (Ba)	mg/kg	18750	ND	2.55	2.10	ND	2.16
Boron (B)	mg/kg	15000	ND	ND	ND	ND	ND
Cadmium (Cd)	mg/kg	17	ND	ND	ND	ND	ND
Chromium III (Cr III)	mg/kg	460	0.08	0.12	0.1	0.13	0.12
Chromium VI (Cr VI)	mg/kg	0.053	ND	ND	ND	ND	ND
Cobalt (Co)	mg/kg	130	ND	ND	ND	ND	ND
Copper (Cu)	mg/kg	7700	ND	ND	ND	ND	ND
Lead (Pb)	mg/kg	23	ND	ND	ND	ND	ND
Manganese (Mn)	mg/kg	15000	2.49	4.30	3.46	2.88	3.25
Mercury (Hg)	mg/kg	94	ND	ND	ND	ND	ND
Nickel (Ni)	mg/kg	930	ND	ND	ND	ND	ND
Selenium (Se)	mg/kg	460	ND	ND	ND	ND	ND
Strontium (Sr)	mg/kg	56000	2.23	3.84	3.10	3.14	9.06
Tin (Sn)	mg/kg	180000	ND	ND	ND	ND	ND
Organic tin	mg/kg	12	ND	ND	ND	ND	ND
Zinc (Zn)	mg/kg	46000	2.66	3.70	3.26	3.45	3.28
Conclusion	-	-	**PASS**	**PASS**	**PASS**	**PASS**	**PASS**

Note:

ND = Not detected
">" = Greater than
Conc. = Concentration
mg/kg = milligram(s) per kilogram
mg/kg = ppm = part(s) per million
10 000 mg/kg = 1 %
% = percent
mcg/sq. m = microgram per square metre

Detection Limit (mg/kg) :
For Type I and Type II - Al : 2 ; Sb : 2 ; As : 0.15 ; Ba : 2 ; B : 2 ; Cd : 0.15 ; Cr III : 0.15 ; Cr VI : 0.005 [0.002] ; Co : 2 ; Cu : 2 ; Pb : 0.5 ; Mn : 2 ;
Hg : 0.15 ; Ni : 2 ; Se : 2 ; Sr : 2 ; Sn : 2 ; Organic tin : 0.04 ; Zn : 2
For Type III - Al : 2 ; Sb : 2 ; As : 2 ; Ba : 2 ; B : 2 ; Cd : 2 ; Cr III : 0.15 ; Cr VI : 0.05 [0.002] ; Co : 2 ; Cu : 2 ; Pb : 2 ; Mn : 2 ; Hg : 2 ; Ni : 2 ; Se : 2 ; Sr : 2 ; Sn : 2 ; Organic tin : 2 ; Zn : 2

Remark:

TEST RESULT

EN 71-3:2019 + A1:2021 MIGRATION OF CERTAIN ELEMENTS

Test Method **:** European Standard EN 71-3:2019+A1:2021

See Soluble Element (Parameter) and its corresponding Maximum Allowable Limit (Req.) in Result Table	**Type I**	**Dry, brittle, powder-like or pliable toy material**
	Type II	**Liquid or sticky toy material**
	Type III	**Scraped-off toy material**

	Unit	Req.	Result				
Test Item(s)	-	-	**I031**	**I032**	**I033**	**I034**	**I035**
Type	-	III	III	III	III	III	III
Parameter	-	-	-	-	-	-	-
Aluminium (Al)	mg/kg	28130	102.82	124.81	104.55	110.52	101.05
Antimony (Sb)	mg/kg	560	ND	ND	ND	ND	ND
Arsenic (As)	mg/kg	47	ND	ND	ND	ND	ND
Barium (Ba)	mg/kg	18750	2.01	2.37	2.0	ND	ND
Boron (B)	mg/kg	15000	ND	ND	ND	ND	ND
Cadmium (Cd)	mg/kg	17	ND	ND	ND	ND	ND
Chromium III (Cr III)	mg/kg	460	0.11	0.13	0.12	0.11	0.11
Chromium VI (Cr VI)	mg/kg	0.053	ND	ND	ND	ND	ND
Cobalt (Co)	mg/kg	130	ND	ND	ND	ND	ND
Copper (Cu)	mg/kg	7700	ND	ND	ND	ND	ND
Lead (Pb)	mg/kg	23	ND	ND	ND	ND	ND
Manganese (Mn)	mg/kg	15000	2.98	4.03	3.07	2.92	2.92
Mercury (Hg)	mg/kg	94	ND	ND	ND	ND	ND
Nickel (Ni)	mg/kg	930	ND	ND	ND	ND	ND
Selenium (Se)	mg/kg	460	ND	ND	ND	ND	ND
Strontium (Sr)	mg/kg	56000	2.77	3.54	2.83	2.72	2.72
Tin (Sn)	mg/kg	180000	ND	ND	ND	ND	ND
Organic tin	mg/kg	12	ND	ND	ND	ND	ND
Zinc (Zn)	mg/kg	46000	3.13	3.65	3.23	3.12	3.12
Conclusion	-	-	**PASS**	**PASS**	**PASS**	**PASS**	**PASS**

Note:

ND = Not detected
">" = Greater than
Conc. = Concentration
mg/kg = milligram(s) per kilogram
mg/kg = ppm = part(s) per million
10 000 mg/kg = 1 %
% = percent
mcg/sq. m = microgram per square metre

Detection Limit (mg/kg) :
For Type I and Type II - Al : 2 ; Sb : 2 ; As : 0.15 ; Ba : 2 ; B : 2 ; Cd : 0.15 ; Cr III : 0.15 ; Cr VI : 0.005 [0.002] ; Co : 2 ; Cu : 2 ; Pb : 0.5 ; Mn : 2 ;
Hg : 0.15 ; Ni : 2 ; Se : 2 ; Sr : 2 ; Sn : 2 ; Organic tin : 0.04 ; Zn : 2
For Type III - Al : 2 ; Sb : 2 ; As : 2 ; Ba : 2 ; B : 2 ; Cd : 2 ; Cr III : 0.15 ; Cr VI : 0.05 [0.002] ; Co : 2 ; Cu : 2 ; Pb : 2 ; Mn : 2 ; Hg : 2 ; Ni : 2 ; Se : 2 ; Sr : 2 ; Sn : 2 ; Organic tin : 2 ; Zn : 2

Remark:

TEST RESULT

EN 71-3:2019 + A1:2021 MIGRATION OF CERTAIN ELEMENTS

Test Method **:** European Standard EN 71-3:2019+A1:2021

See Soluble Element (Parameter) and its corresponding Maximum Allowable Limit (Req.) in Result Table	**Type I**	**Dry, brittle, powder-like or pliable toy material**
	Type II	**Liquid or sticky toy material**
	Type III	**Scraped-off toy material**

	Unit	Req.	Result	
Test Item(s)	-	-	**I036**	**I037**
Type	-	III	III	III
Parameter	-	-	-	-
Aluminium (Al)	mg/kg	28130	ND	ND
Antimony (Sb)	mg/kg	560	ND	ND
Arsenic (As)	mg/kg	47	ND	ND
Barium (Ba)	mg/kg	18750	ND	ND
Boron (B)	mg/kg	15000	ND	ND
Cadmium (Cd)	mg/kg	17	ND	ND
Chromium III (Cr III)	mg/kg	460	ND	ND
Chromium VI (Cr VI)	mg/kg	0.053	ND	ND
Cobalt (Co)	mg/kg	130	ND	ND
Copper (Cu)	mg/kg	7700	ND	ND
Lead (Pb)	mg/kg	23	ND	ND
Manganese (Mn)	mg/kg	15000	ND	ND
Mercury (Hg)	mg/kg	94	ND	ND
Nickel (Ni)	mg/kg	930	ND	ND
Selenium (Se)	mg/kg	460	ND	ND
Strontium (Sr)	mg/kg	56000	ND	ND
Tin (Sn)	mg/kg	180000	ND	ND
Organic tin	mg/kg	12	ND	ND
Zinc (Zn)	mg/kg	46000	ND	ND
Conclusion	-	-	**PASS**	**PASS**

Note:

ND = Not detected
"<" = Greater than
Conc. = Concentration
mg/kg = milligram(s) per kilogram
mg/kg = ppm = part(s) per million
10 000 mg/kg = 1 %
% = percent
mcg/sq. m = microgram per square metre

Detection Limit (mg/kg) :
For Type I and Type II - Al : 2 ; Sb : 2 ; As : 0.15 ; Ba : 2 ; B : 2 ; Cd : 0.15 ; Cr III : 0.15 ; Cr VI : 0.005 [0.002] ; Co : 2 ; Cu : 2 ; Pb : 0.5 ; Mn : 2 ;
Hg : 0.15 ; Ni : 2 ; Se : 2 ; Sr : 2 ; Sn : 2 ; Organic tin : 0.04 ; Zn : 2
For Type III - Al : 2 ; Sb : 2 ; As : 2 ; Ba : 2 ; B : 2 ; Cd : 2 ; Cr III : 0.15 ; Cr VI : 0.05 [0.002] ; Co : 2 ; Cu : 2 ; Pb : 2 ; Mn : 2 ; Hg : 2 ; Ni : 2 ; Se : 2 ; Sr : 2 ; Sn : 2 ; Organic tin : 2 ; Zn : 2

Remark:

TEST RESULT

EN 71-3:2019 + A1:2021 MIGRATION OF CERTAIN ELEMENTS CHROMIUM III AND CHROMIUM VI CONFIRMATION

Test Method **:** European Standard EN 71-3:2019+A1:2021

Se Soluble Element (Parameter) and its corresponding Maximum Allowable Limit (Req.) in Result Table	**Type I**	**Dry, brittle, powder-like or pliable toy material**
	Type II	**Liquid or sticky toy material**
	Type III	**Scraped-off toy material**

	Unit	Req.	Result		
Test Item(s)	-	-	**I021**	**I022**	**I023**
Type	-	III	III	III	III
Parameter	-	-	-	-	-
Chromium VI (Cr VI)	mg/kg	0.053	ND	ND	ND
Conclusion	-	-	**PASS**	**PASS**	**PASS**

	Unit	Req.	Result		
Test Item(s)	-	-	**I024**	**I025**	**I026**
Type	-	III	III	III	III
Parameter	-	-	-	-	-
Chromium VI (Cr VI)	mg/kg	0.053	ND	ND	ND
Conclusion	-	-	**PASS**	**PASS**	**PASS**

	Unit	Req.	Result		
Test Item(s)	-	-	**I027**	**I028**	**I029**
Type	-	III	III	III	III
Parameter	-	-	-	-	-
Chromium VI (Cr VI)	mg/kg	0.053	ND	ND	ND
Conclusion	-	-	**PASS**	**PASS**	**PASS**

Note:

ND = Not detected
">" = Greater than
Conc. = Concentration
mg/kg = milligram(s) per kilogram
mg/kg = ppm = part(s) per million
10 000 mg/kg = 1 %
% = percent
mcg/sq. m = microgram per square metre
Detection Limit (mg/kg) :
For Type I and Type II - Cr VI : 0.005 [0.002]
For Type III - Cr VI : 0.05 [0.002]

Remark:

TEST RESULT

EN 71-3:2019 + A1:2021 MIGRATION OF CERTAIN ELEMENTS CHROMIUM III AND CHROMIUM VI CONFIRMATION

Test Method **:** European Standard EN 71-3:2019+A1:2021

Se Soluble Element (Parameter) and its corresponding Maximum Allowable Limit (Req.) in Result Table	**Type I**	**Dry, brittle, powder-like or pliable toy material**
	Type II	**Liquid or sticky toy material**
	Type III	**Scraped-off toy material**

	Unit	**Req.**	**Result**		
Test Item(s)	-	-	**I030**	**I031**	**I032**
Type	-	III	III	III	III
Parameter	-	-	-	-	-
Chromium VI (Cr VI)	mg/kg	0.053	ND	ND	ND
Conclusion	-	-	**PASS**	**PASS**	**PASS**

	Unit	**Req.**	**Result**		
Test Item(s)	-	-	**I033**	**I034**	**I035**
Type	-	III	III	III	III
Parameter	-	-	-	-	-
Chromium VI (Cr VI)	mg/kg	0.053	ND	ND	ND
Conclusion	-	-	**PASS**	**PASS**	**PASS**

Note:

ND = Not detected
">" = Greater than
Conc. = Concentration
mg/kg = milligram(s) per kilogram
mg/kg = ppm = part(s) per million
10 000 mg/kg = 1 %
% = percent
mcg/sq. m = microgram per square metre
Detection Limit (mg/kg) :
For Type I and Type II - Cr VI : 0.005 [0.002]
For Type III - Cr VI : 0.05 [0.002]

Remark:

TEST RESULT

POLYCYCLIC AROMATIC HYDROCARBONS (PAHS)

Test Method : All materials: AFPS GS 2019
Quantification analysis by GC-MS

Maximum Limit:	**Each of 8 PAHs < 0.5 mg/kg**

Tested Item(s)	Result			Conclusion
	Detected Analyte(s)	Conc.	Unit	
I001+I002+I003	/	ND	mg/kg	PASS
I004+I005+I006	/	ND	mg/kg	PASS
I007+I008+I009	/	ND	mg/kg	PASS
I010+I011+I012	/	ND	mg/kg	PASS
I036+I037	/	ND	mg/kg	PASS
I038+I039	/	ND	mg/kg	PASS

ND = Not detected
mg/kg = milligram(s) per kilogram
10 000 mg/kg = 1 %
Detection Limit (mg/kg) - 0.1 each

">" = Greater than
mg/kg = ppm = part(s) per million
% = percent

Conc. = Concentration

Remark:

- The list of Polycyclic Aromatic Hydrocarbons (PAHs) is summarized in table of Appendix.

TEST RESULT

PHTHALATES

Test Method : CPSC-CH-C1001-09.3
Quantification analysis by GC-MS or LC-DAD-MS

Maximum Limit:	**Sum of (DBP, BBP, DEHP): Less than 1000 mg/kg** **Sum of (DNOP, DIDP, DINP): Less than 1000 mg/kg**

Tested Item(s)	**Result**			**Conclusion**
	Detected Analyte(s)	**Conc.**	**Unit**	
I001+I002+I003	/	ND	mg/kg	PASS
I004+I005+I006	/	ND	mg/kg	PASS
I007+I008+I009	/	ND	mg/kg	PASS
I010+I011+I012	/	ND	mg/kg	PASS
I036+I037	/	ND	mg/kg	PASS
I038+I039	/	ND	mg/kg	PASS

Note:

ND = Not detected
mg/kg = milligram(s) per kilogram
10 000 mg/kg = 1 %
Detection Limit (mg/kg) - 50 each

">" = Greater than
mg/kg = ppm = part(s) per million
% = percent

Conc. = Concentration

Remark:

- The list of Phthalates is summarized in table of Appendix.

APPENDIX A –LIST OF MEASUREMENT UNCERTAINTIES		
TEST NAME	STANDARD NAME	MEASUREMENT UNCERTAINTY
Migratıon Of Certain Elements	European Standard EN 71 Part 3: 2019, Section 8.	± % 26,78
Phthalates	CPSC-CH-C1001-09.03	± %16,53
Polycyclic Aromatic Hydrocarbons (PAHs)	AFPS GS 2019	± % 19.44

APPENDIX

List of Phthalates:					
No.	**Name of Analytes**	**CAS-No.**	**No.**	**Name of Analytes**	**CAS-No.**
1	Butylbenzylphthalate (BBP)	85-68-7	4	Di-n-octylphthalate (DNOP)	117-84-0
2	Dibutylphthalate (DBP)	84-74-2	5	Di-iso-nonylphthalate (DINP)	28553-12-0
3	Di(2-ethylhexyl)-phthalate (DEHP)	117-81-7	6	Diisodecylphthalate (DIDP)	26761-40-0

List of Polycyclic Aromatic Hydrocarbons (PAHs):					
No.	**Name of Analytes**	**CAS-No.**	**No.**	**Name of Analytes**	**CAS-No.**
1	Benzo (a) anthracene	56-55-3	5	Dibenzo (a,h) anthracene	53-70-3
2	Chrysene	218-01-9	6	Benzo (b) fluoranthene	205-99-2
3	Benzo (a) pyrene	50-32-8	7	Benzo (k) fluoranthene	207-08-9
4	Benzo (e) pyrene	192-97-2	8	Benzo (j) fluoranthene	205-82-3

-END OF REPORT-