



Test Report

Report No.: LST24120353EN

Date: Dec. 20, 2024

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The following sample(s) information and test item(s) were submitted and identified by/on behalf of the applicant

Sample Name: CRAYONS SET
Sample Model: R74050.13
P/O No.: 2024/441

Exported to: European
Country of Origin: China
Buyer: PAR BAKULA SPOLKA JAWNA

Labeled age group: None
Age grading for testing: Over 3 years old
Applicant's specified age group for testing: Over 3 years old
Sample Receiving Date: Dec. 17, 2024
Testing Period: Dec. 17, 2024 to Dec. 20, 2024

Summary of Test Result(s):

No.	Test Sample	Test Requested	Result(s)
1	Submitted samples	EN 71 Part 1:2014+A1:2018,European Standard for "Safety of toys" - Physical and Mechanical Properties(Except section 6,7.1,7.2)	PASS
2	Submitted samples	EN 71 Part 2:2020,European Standard for "Safety of toys" - Flammability	PASS
3	Tested materials of submitted samples	European Directive 2009/48/EC and its subsequent amendments and EN 71-3:2019+A1:2021 - Migration of certain elements	PASS

*****FOR FURTHER DETAILS,PLEASE REFER TO THE FOLLOWING PAGE(S)*****

Signed for and on behalf of LST

Rory / Technical Manager

Signed for and on behalf of LST

Davy / Lab supervisor

Zhejiang Lisen Testing Technology Co., Ltd.

Address:5 Floor,Building 13,Yiwu Science&Technology Park,
No.968 Xuefeng West Road,Yiwu,Zhejiang,China

Tel: 86-579-85573858

E-mail: zj@lisenlab.com

URL: <http://www.lisenlab.com>

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Sample Description

Material No.	Component Description	Location
01	Yellow wax	Crayon
02	Green wax	Crayon
03	Red wax	Crayon
04	Orange wax	Crayon
05	Blue wax	Crayon
06	Brown rope	Rope
07	Beige wood	Snail toy
08	Crayon suit	Crayon suit

Photo of sample



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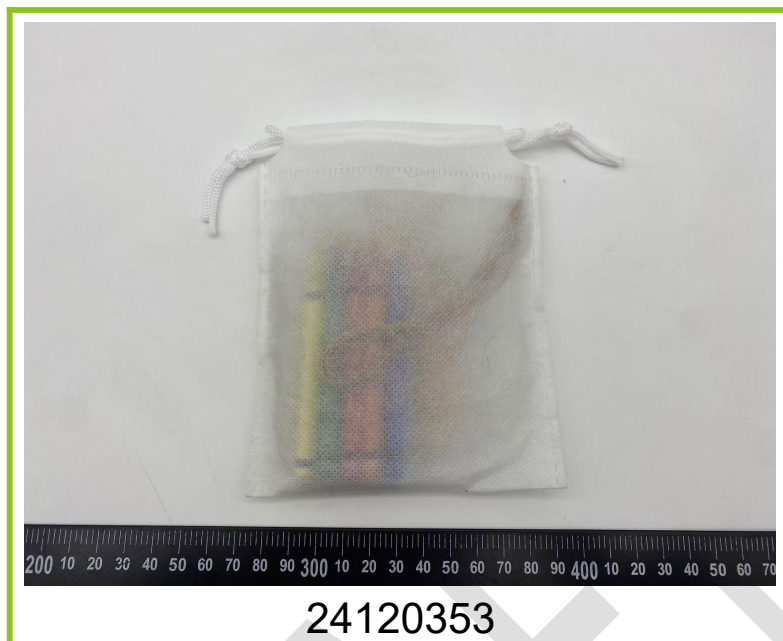


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Test Result(s):

EN 71 Part 1:2014+A1:2018 - Mechanical and Physical Test

Section	Testing Items	Assessment
		08
4	General requirements	
4.1	Material cleanliness	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	Points and 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	Projectiles	NA
4.18	Aquatic toys and inflatable toys	NA
4.19	Percussion caps specifically designed for use in toys and toys using percussion caps	NA
4.20	Acoustics	NA
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 Coustumes	NA
4.27	Flying toys	NA
5	Toys intended for children under 36 months	

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5.1	General requirements:	NA
5.2	Soft-filled toys and soft-filled parts of toy	NA
5.3	Plastic sheeting	NA
5.4	Cords, chains and electrical cables in toys	NA
5.5	Liquid-filled toys	NA
5.6	Speed limitation of electrically-driven ride-on toys	NA
5.7	Glass and porcelain	NA
5.8	Shape and size of certain toys	NA
5.9	Toys comprising monofilament fibers	NA
5.10	Small balls	NA
5.11	Play figures	NA
5.12	Hemispheric-shaped toys	NA
5.13	Suction cups	NA
5.14	Straps intended to be worn fully or partially around the neck	NA
6	Packaging	NR
7	Warnings, markings and instructions for use	
7.1	General	NR
7.2	Toys not intended for children under 36 months	NR
7.3	Latex balloons	NA
7.4	Aquatic toys	NA
7.5	Functional toys	NA
7.6	Hazardous sharp functional edges and points	NA
7.7	Projectiles	NA
7.8	Imitation protective masks and helmets	NA
7.9	Toy kites	NA
7.10	Roller skates, inline skates, skateboards and certain other ride-on toys	NA
7.11	Toys intended to be attached to or strung across a cradle, cot, or perambulator	NA
7.12	Liquids-filled teethingers	NA
7.13	Percussion caps specifically designed for use in toys	NA
7.14	Acoustics	NA
7.15	Toy bicycles	NA

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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 300mm 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

Note: 1. NA = Not Applicable
2. NR = Not Requested

EN 71 Part 2:2020 - Flammability

Section	Testing Items	Assessment
		08
4.1	General requirements	PASS
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

Note: NA = Not Applicable.

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EN 71-3:2019+A1:2021 - Migration of Certain Elements

Method: General elements, with reference to EN 71-3:2019+A1:2021, analyzed by Inductively coupled plasma mass spectrometer (ICP-MS) .

Test Item(s)	Result (mg/kg)						
	01	02	03	04	05	06	07
Category Type	I	I	I	I	I	III	III
Extractable Lead (Pb)	0.2	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Extractable Antimony (Sb)	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Extractable Arsenic (As)	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Extractable Barium (Ba)	N.D.	N.D.	20	N.D.	N.D.	N.D.	N.D.
Extractable Cadmium (Cd)	0.1	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Extractable Mercury (Hg)	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Extractable Selenium (Se)	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Extractable Boron (B)	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Extractable Cobalt (Co)	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Extractable Manganese (Mn)	77	34	32	17	45	N.D.	N.D.
Extractable Strontium (Sr)	12	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Extractable Zinc (Zn)	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Extractable Copper (Cu)	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Extractable Aluminium (Al)	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Extractable Nickel (Ni)	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Extractable Tin (Sn) ^{1#}	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Extractable Chromium(Cr) ^{2#}	0.089	0.028	0.049	0.055	0.046	0.178	0.072
Extractable Organic Tin ^{1#}	/	/	/	/	/	/	/
Extractable Chromium (III) (Cr III) ^{3#}	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Extractable Chromium (VI) (Cr VI) ^{2#}	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Conclusion(s)	PASS	PASS	PASS	PASS	PASS	PASS	PASS

- Note:**
1. mg/kg = milligram per kilogram
 2. MDL = Method Detection Limit
 3. N.D. = Not Detected, less than MDL
 4. 1# - Result of Organic Tin is calculated by assuming the extractable Tin content is wholly contributed from tributyltin (TBT) cation unless further specified. If migration of total tin were not detected, Extractable Organic Tin were considered not detected; Otherwise, Extractable Organic Tin were verified by below method: BS EN 71-3:2019+A1:2021 Annex G, analyzed by GC-MS.

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5. 2# - If the migration of total Chromium is below the maximum limit for Chromium (VI), it can be inferred that the material complies with the requirements for both Chromium(III) and Chromium(VI). Otherwise, Extractable Chromium (VI) were verified by below method:
BS EN 71-3:2019+A1:2021 Annex F, analyzed by IC-ICP-MS.
6. 3# - In particular Chromium (III) is calculated by subtracting the Chromium (VI) concentration from the total chromium concentration.

Limited Value for migration of certain elements:

Test Item(s)	Limited Value(mg/kg)					
	Category I		Category II		Category III	
	MDL	Limit	MDL	Limit	MDL	Limit
Extractable Lead (Pb)	0.2	2.0	0.2	0.5	5	23
Extractable Antimony (Sb)	1	45	1	11.3	5	560
Extractable Arsenic (As)	0.2	3.8	0.2	0.9	5	47
Extractable Barium (Ba)	10	1500	10	375	50	18750
Extractable Cadmium (Cd)	0.1	1.3	0.1	0.3	1	17
Extractable Mercury (Hg)	0.5	7.5	0.5	1.9	5	94
Extractable Selenium (Se)	1	37.5	1	9.4	5	460
Extractable Boron (B)	10	1200	10	300	50	15000
Extractable Cobalt (Co)	0.5	10.5	0.5	2.6	5	130
Extractable Manganese (Mn)	10	1200	10	300	50	15000
Extractable Strontium (Sr)	10	4500	10	1125	50	56000
Extractable Zinc (Zn)	10	3750	10	938	50	46000
Extractable Copper (Cu)	10	622.5	10	156	50	7700
Extractable Aluminum (Al)	10	2250	10	560	50	28130
Extractable Nickel (Ni)	2	75	2	18.8	5	930
Extractable Tin (Sn)	0.1	15000	0.1	3750	1	180000
Extractable Organic Tin	0.2	0.9	0.2	0.2	2	12
Extractable Chromium	0.02	-	0.005	-	0.05	-
Extractable Chromium (III) (Cr III)	2	37.5	2	9.4	10	460
Extractable Chromium (VI) (Cr VI)	0.02	0.02	0.005	0.005	0.05	0.053

Note: Category I: dry, brittle, powder-like or pliable toy material
Category II: liquid or sticky toy material
Category III: scraped-off toy material
“-” = Not Regulated

End of Report

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