



Test Report

Report No.: LST22062178ENS2

Date: Jul. 14, 2022

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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: COLOR PENCIL SET
Sample Model: Z304B/Z302C/2711-6/2711-4
Exported to: EUROPE
Labeled Age Group: None
Tested Age Grading: 3+
Applicant's Specified Testing Age Group: 3+
Sample Receiving Date: Jun. 22, 2022
Testing Period: Jun. 22, 2022 to Jul. 14, 2022

*****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

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Summary of Test Result(s):

No.	Test Sample	Test Requested	Result(s)
1	Submitted samples	EN71 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	EN71 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
4	Tested materials of submitted samples	Annex XVII items 51&52 of the REACH Regulation (EC) No 1907/2006 & amended (EC) No. 552/2009&(EU) 2018/2005 - Phthalates	PASS
5	Tested materials of submitted samples	Regulation (EU) 2019/1021 of the European Parliament and of the Council(POPs) - Pentachlorophenol (PCP)	PASS

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Sample Description

Material No.	Component Description	Location
01	Green wax	Crayon
02	Brown wood	Barrel
03	White plastic	Pencil sharpener
04	Color pencil set	Color pencil set entirety
05	Green cartridge	Cartridge
06	Drawing suit	Drawing suit entirety

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Photo of sample



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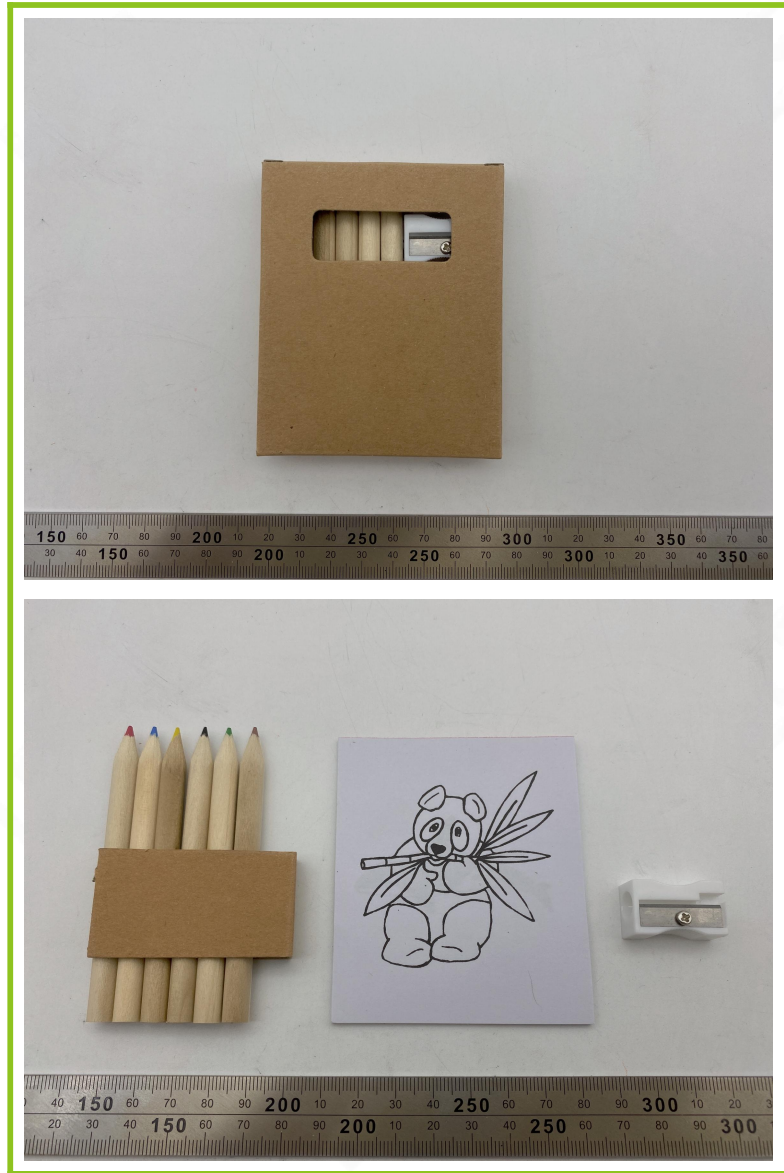
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Test Result(s):

EN71 Part 1:2014+A1:2018 - Mechanical and Physical Test

Section	Testing Items	Assessment	
		04	06
4	General requirements		
4.1	Material cleanliness	PASS	PASS
4.2	Assembly	NA	NA
4.3	Flexible plastic sheeting	NA	NA
4.4	Toy bags	NA	NA
4.5	Glass	NA	NA
4.6	Expanding materials	NA	NA
4.7	Edges	PASS	PASS
4.8	Points and metallic wires	PASS	PASS
4.9	Protruding parts	NA	NA
4.10	Parts moving against each other	NA	NA
4.11	Mouth-actuated toys and other toys intended to be put in the mouth	NA	NA
4.12	Balloons	NA	NA
4.13	Cords of toy kites and other flying toys	NA	NA
4.14	Enclosures	NA	NA
4.15	Toys intended to bear the mass of a child	NA	NA
4.16	Heavy immobile toys	NA	NA
4.17	Projectiles	NA	NA
4.18	Aquatic toys and inflatable toys	NA	NA
4.19	Percussion caps specifically designed for use in toys and toys using percussion caps	NA	NA
4.20	Acoustics	NA	NA
4.21	Toys containing a non-electrical heat source	NA	NA
4.22	Small balls	NA	NA
4.23	Magnets	NA	NA
4.24	Yo-yo balls	NA	NA
4.25	Toys attached to food	NA	NA
4.26	Toy Disguise Coustumes	NA	NA
4.27	Flying toys	NA	NA
5	Toys intended for children under 36 months		

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

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7.16	Toys intended to bear the mass of a child	NA	NA
7.17	Toys comprising monofilament fibres	NA	NA
7.18	Toy scooters	NA	NA
7.19	Rocking horses and similar toys	NA	NA
7.20	Magnetic/electrical experimental sets	NA	NA
7.21	Toys with electrical cables exceeding 300mm in length	NA	NA
7.22	Toys with cords or chains intended for children of 18 months and over but under 36 months	NA	NA
7.23	Toys intended to be attached to a cradle, cot or perambulator	NA	NA
7.24	Sledges with cords for pulling	NA	NA
7.25	Flying toys	NA	NA
7.26	Improvised projectiles	NA	NA

- Note:**
1. NA = Not Applicable
 2. NR = Not Requested
 3. "*" = Per client's requirement, the packaging was not evaluated.

EN71 Part 2:2020 - Flammability

Section	Testing Items	Assessment
		04
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 ^s

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

Test Item(s)	Result (mg/kg)	
	01	05*
Category Type	I	I
Extractable Lead (Pb)	N.D.	N.D.
Extractable Antimony (Sb)	N.D.	N.D.
Extractable Arsenic (As)	N.D.	N.D.
Extractable Barium (Ba)	N.D.	N.D.
Extractable Cadmium (Cd)	N.D.	N.D.
Extractable Mercury (Hg)	N.D.	N.D.
Extractable Selenium (Se)	N.D.	N.D.
Extractable Boron (B)	N.D.	N.D.
Extractable Cobalt (Co)	N.D.	N.D.
Extractable Manganese (Mn)	N.D.	N.D.
Extractable Strontium (Sr)	N.D.	N.D.
Extractable Zinc (Zn)	N.D.	N.D.
Extractable Copper (Cu)	N.D.	N.D.
Extractable Aluminium (Al)	N.D.	67
Extractable Nickel (Ni)	N.D.	N.D.
Extractable Tin (Sn) ^{1#}	N.D.	N.D.
Extractable Organic Tin ^{1#}	N.D.	N.D.
Extractable Chromium ^{2#}	/	/
Extractable Chromium (III) (Cr III) ^{3#}	N.D.	N.D.
Extractable Chromium (VI) (Cr VI)	N.D.	N.D.
Conclusion(s)	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: 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: 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.
7. "*" = Sample receiving date is Jul. 07, 2022.

Limited Value for migration of certain elements:

European Directive 2009/48/EC and its subsequent amendments and EN 71-3:2019+A1:2021

Test Item(s)	Limited Value(mg/kg)					
	Category I		Category II		Category III	
	MDL	Limit	MDL	Limit	MDL	Limit
Extractable Lead (Pb)	1.0	2.0	0.2	0.5	5	23
Extractable Antimony (Sb)	5	45	1	11.3	5	560
Extractable Arsenic (As)	0.2	3.8	0.1	0.9	5	47
Extractable Barium (Ba)	50	1500	10	375	50	18750
Extractable Cadmium (Cd)	0.1	1.3	0.05	0.3	1	17
Extractable Mercury (Hg)	0.5	7.5	0.2	1.9	5	94
Extractable Selenium (Se)	2	37.5	1	9.4	5	460
Extractable Boron (B)	50	1200	10	300	50	15000
Extractable Cobalt (Co)	1	10.5	0.2	2.6	5	130
Extractable Manganese (Mn)	50	1200	10	300	50	15000
Extractable Strontium (Sr)	50	4500	50	1125	50	56000
Extractable Zinc (Zn)	50	3750	50	938	50	46000
Extractable Copper (Cu)	10	622.5	10	156	50	7700
Extractable Aluminum (Al)	50	2250	50	560	50	28130
Extractable Nickel (Ni)	5	75	2	18.8	5	930
Extractable Tin (Sn)	0.2	15000	0.2	3750	2	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	1	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

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Annex XVII items 51&52 of the REACH - Phthalates

Method: With reference to CPSC-CH-C1001-09.4:2018, was analyzed by Gas Chromatograph-Mass Spectrometer (GC-MS).

Substances	DBP	BBP	DEHP	DIBP	SUM	DNOP	DIDP	DINP	SUM	Conclusion
CAS No.	84-74-2	85-68-7	117-81-7	84-69-5	--	117-84-0	26761-40-0 /68515-49-1	28553-12-0 /68515-48-0	--	
Limit (mg/kg)	--	--	--	--	1000	--	--	--	1000	
RL (mg/kg)	50	50	50	50	--	50	100	100	--	
Material No.	Result (mg/kg)									
03	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	PASS

- Note:**
1. mg/kg = milligram per kilogram (ppm).
 2. N.D. = Not Detected (< RL).
 3. RL= Reporting Limit.
 4. The DBP, BBP, DEHP and DIBP shall not be used as substances or in mixtures, in concentrations greater than 1000 mg/kg by weight of the plasticised material, in toys and childcare articles.
 5. The DNOP, DIDP and DINP shall not be used as substances or in mixtures, in concentrations greater than 1000 mg/kg by weight of the plasticised material, in toys and childcare articles which can be placed in the mouth by children.

Pentachlorophenol (PCP) ^s

Method: With reference to CEN/TR 14823:2003, analyzed by Gas Chromatograph-Mass Spectrometry (GC-MS).

Material No.	Limit (mg/kg)	Result (mg/kg)	Conclusion
02	5	N.D.	PASS

- Note:**
1. mg/kg = milligram per kilogram (ppm).
 2. N.D. = Not Detected (<RL).
 3. RL (Reporting Limit) = 0.5 mg/kg.

Remark: This report is a revised document for Report No. LST22062178ENS1. Report No.

LST22062178ENS1 is replaced and invalidated automatically from the approval date of this report.

End of Report

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