

CPST

Test Report

No. C210809142002-3

Date: Aug 25, 2021

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Applicant: ZHEJIANG YUANYI CHILDREN'S PRODUCTS Co.,Ltd.

Applicant Address: Xiaojing'ao Village, Qiaoxia town, Yongjia County, Wenzhou City, Zhejiang Province, China

The following samples were submitted and identified on behalf of the clients as

Sample Name: Space Slide
Sample Description: Space Slide
Model: YYP2042
Batch No. : 20210715
Manufacturer : ZHEJIANG YUANYI CHILDREN'S PRODUCTS Co.,Ltd.
Manufacturer Address : Xiaojing'ao Village, Qiaoxia town, Yongjia County, Wenzhou City, Zhejiang Province, China
Requested Age Grading: 6-36 Months
Labeled Age Grading: 6-36 Months
Test age: 6-36 Months
CPST Internal Reference No.: C210809142
Sample Received Date: Aug 09, 2021
Test Period: Aug 09, 2021 to Aug 25, 2021
Test Method: Please refer to next page(s).
Test Result: Please refer to next page(s).



Signed for and on behalf of
Eurones (Dongguan) Consumer Products Testing Service Co., Ltd

WRITTEN BY :

Silvia Chan

Chen Xiao Ting, Silvia
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Liu Xiao Fang, Sunshine
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Pan Jian Ding, Will
Technical Supervisor

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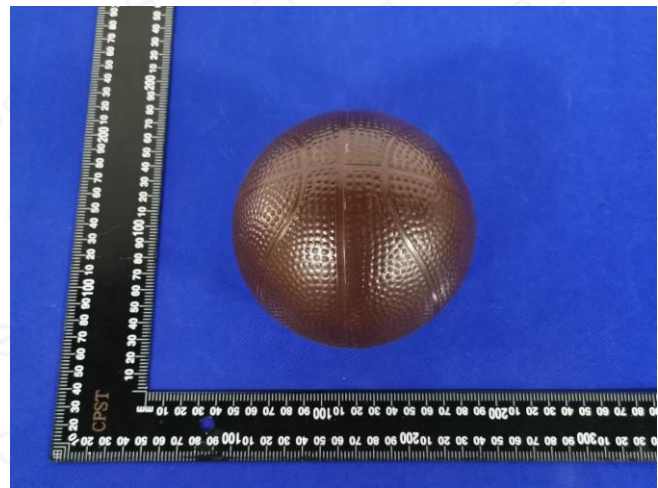
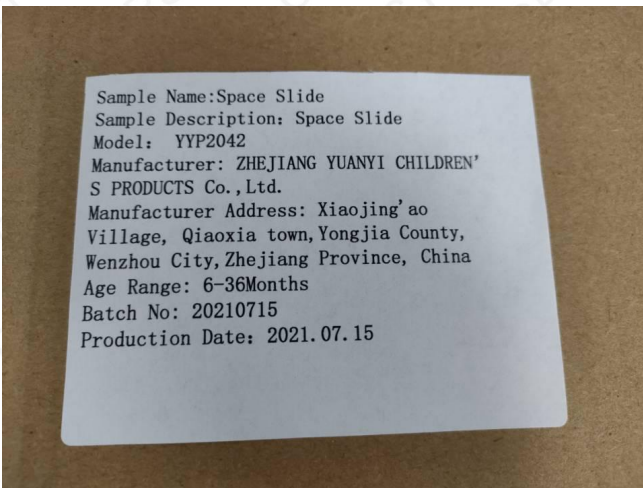
CONCLUSION :

<u>TESTED SAMPLES</u>	<u>TEST ITEM</u>	<u>RESULT</u>
	1.ASTM F1148-21 Standard Consumer Safety Performance Specification for Home Playground Equipment ¹	PASS
	2. ASTM F963-17 Standard Consumer Safety Specification for Toy Safety:	
	1) Physical & Mechanical Tests	PASS
	2) 4.2 Flammability	PASS
	3) Heavy metal content in Toy Substrate Materials: ASTM F963-17 Section 4.3.5.2	PASS
	Heavy metal content in paint and similar surface coating material : ASTM F963-17 Section 4.3.5.1	N.A.
Space Slide	3.Lead in Non-Metal Children's Products (CPSC-CH-E1002-08.3:2012) - USA Consumer Product Safety Improvement Act (CPSIA) Sec.101.(a)	PASS
	4. Lead Content for coating—USA Consumer Product Safety Improvement Act (CPSIA) Sec.101.(f)	N.A.
	5.Lead Paint Regulation - 16 CFR Part 1303 (CPSC-CH-E1003-09.1)	N.A.
	6. Determination of Phthalates (CPSC-CH-C1001:09.4) -USA Consumer Product Safety Improvement Act (CPSIA) Sec.108	PASS
	7.16 CFR 1501 Small part rule	
	16 CFR 1500.48 Sharp Point	PASS
	16 CFR 1500.49 Sharp Edge	PASS
	8.As specified in Consumer Product Safety Improvement Act (CPSIA) of 2008 section 103 tracking labels for children's products	PASS

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Photo of the Submitted Sample



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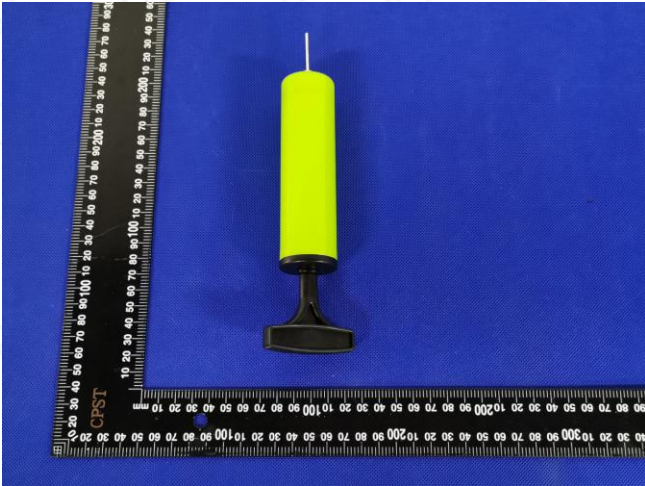
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Room 1092, No.12, East of Houjie Avenue, Houjie, Dongguan, Guangdong, China

Postcode: 523945

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Test Result(s):

Description of Specimen : No.1 Space Slide
 No.2 Gray plastic
 No.3 White plastic
 No.4 Basketball
 No.5 Green plastic
 No.6 Black plastic

1.ASTM F1148-21 Standard Consumer Safety Performance Specification for Home Playground

Equipment¹

Section	Observation	Results
		No.1
5	General Requirements	---
5.1	Applicable to All Home Playground Equipment	PASS
5.2	Small Parts	PASS
6	Performance Requirements	---
6.1	Head and Neck Entrapment	PASS
6.2	Acute Angles	PASS
6.3	Protrusions	PASS
6.4	Edges, Points, and Surfaces	PASS
6.5	Open Tubing	N.A.
6.6	Crush and Shear Points	PASS
6.7	Holes and Slots	N.A.
6.8	Hardware	PASS
6.9	Hooks	N.A.
6.10	Hand Support: Hand Gripping/Grasping Components	PASS
7	Requirements for Access	---
7.1	Rung Ladders, Stepladders, and Stairways	PASS
7.2	Handrails	PASS
7.3	Guardrails and Protective Barriers	N.A.
8	Equipment	---

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Section	Observation	Results
		No.1
8.1	Swings	N.A.
8.1.1	To-fro swinging components such as, but not limited to, swings, trapeze bars, trapeze rings, and gliders shall not be attached to upper body components such as horizontal ladders.	N.A.
8.1.2	Hangers	N.A.
8.1.3	Minimum Ground Clearance	N.A.
8.1.4	Suspended Swinging Elements	N.A.
8.1.5	Lawn Swings	N.A.
8.1.6	Pendulum See-Saws	N.A.
8.1.7	Toddler Swings	N.A.
8.1.8	Swing Set Stability	N.A.
8.1.9	Spacing Between Adjacent Swing Elements	N.A.
8.1.10	Spacing Between Swing Elements and Stationary Frame Members	N.A.
8.2	Slides	---
8.2.1	Slide Requirements	PASS
8.2.2	Stability of Free-Standing Slides	N.A.
8.2.3	Roller Slides	N.A.
8.3	Merry-Go-Rounds	N.A.
8.4	Ropes	N.A.
9	Equipment Layout	---
9.1	Play Structure Use Zone	N.A.
10	Installation	PASS
11	Structural Integrity	PASS
12	Maintenance Instructions	PASS
13	Labeling and Signage	PASS
14	Information	PASS

N.A. = Not Applicable

The sample No.1 was resubmitted by client dated on Aug 13, 2021

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2.1)ASTM F963-17 Standard Consumer Safety Specification for Toy Safety: Physical & Mechanical Tests

Section	Test Item	Result
		No.1
4	Safety Requirements	---
4.1	Material Quality	PASS
4.2	Flammability	PASS
4.3	Toxicology	---
4.3.1	Hazardous Substances	N.A.
4.3.2	Manufacturing and Packaging of Food	N.A.
4.3.3	Indirect Food Additives	N.A.
4.3.4	Cosmetics	N.A.
4.3.5	Heavy Elements	PASS
4.3.6	Cosmetics, Liquids, Pastes, Putties, Gels, Powders and Items of Avian Feather Origin	N.A.
4.3.7	Stuffing Materials.	N.A.
4.3.8	DEHP (DOP)	N.A.
4.4	Electrical/Thermal Energy	N.A.
4.5	Sound-producing Toys	N.A.
4.6	Small Objects	---
4.6.1	Toys that are intended for children under 36 months of age	PASS
4.6.2	Mouth-Actuated Toys	N.A.
4.6.3	Toys and games that are intended for use by children who are at least three years old but less than six years of age	N.A.
4.7	Accessible Edges	PASS
4.8	Projections	N.A.
4.9	Accessible Points	PASS
4.10	Wires or Rods	N.A.
4.11	Nails and Fasteners	PASS
4.12	Plastic Film	N.A.
4.13	Folding Mechanisms and Hinges	N.A.
4.14	Cords, Straps, and Elastics	N.A.

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Section	Test Item	Result
		No.1
4.15	Stability and Over-Load Requirements	PASS
4.16	Confined Spaces	N.A.
4.17	Wheels, Tires and Axles	N.A.
4.18	Holes, Clearance and Accessibility of Mechanisms	PASS
4.19	Simulated Protective Devices	N.A.
4.20	Pacifiers	N.A.
4.21	Projectile Toys	N.A.
4.22	Teethers and Teething Toys	N.A.
4.23	Rattles	N.A.
4.24	Squeeze Toys	N.A.
4.25	Battery-Operated Toys	N.A.
4.26	Toys Intended to be Attached to a Crib or Playpen	N.A.
4.27	Stuffed and Beanbag-Type Toys	N.A.
4.28	Stroller and Carriage Toys	N.A.
4.29	Art Materials	N.A.
4.30	Toy Gun Marking	N.A.
4.31	Balloons	N.A.
4.32	Certain Toys with Nearly Spherical Ends	N.A.
4.33	Marbles	N.A.
4.34	Balls	N.A.
4.35	Pompoms	N.A.
4.36	Hemispheric-Shaped Objects	N.A.
4.37	Yo-Yo Elastic Tether Toys	N.A.
4.38	Magnets	N.A.
4.39	Jaw Entrapment in Handles and Steering Wheels	N.A.
4.40	Expanding Materials	N.A.
4.41	Toy Chests	N.A.

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Section	Test Item	Result
		No.1
5.	Labeling Requirements	---
5.1	Federal Government Requirements	PASS
5.2	Age Grading Labeling	PASS
5.3	Safety Labeling Requirements	N.A.
5.4	Aquatic Toys	N.A.
5.5	Crib and Playpen Toys	N.A.
5.6	Mobiles	N.A.
5.7	Stroller and Carriage Toys	N.A.
5.8	Toys Intended to be Assembled by an Adult	N.A.
5.9	Simulated Protective Devices	N.A.
5.10	Toys with Functional Sharp Edges or Points	N.A.
5.11	Small Objects, Small Balls, Marbles and Balloons	N.A.
5.12	Toy Caps	N.A.
5.13	Art Materials	N.A.
5.14	Electric Toys	N.A.
5.15	Battery-Operated Toys	N.A.
5.16	Promotional Materials	N.A.
5.17	Magnets	N.A.
6.	Instructional Literature	---
6.1	Definition and Description	PASS
6.2	Crib and Playpen Toys	N.A.
6.3	Mobiles	N.A.
6.4	Toys Intended to be Assembled by an Adult	N.A.
6.5	Battery-Operated Toys	N.A.
6.6	Battery Powered Ride-on Toys	N.A.
6.7	Toys in Contact with Food	N.A.
6.8	Toy Chests	N.A.

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Section	Test Item	Result
		No.1
7.	Producer's Markings	---
7.1	Producer's Markings	PASS
7.2	Battery-Powered Ride-on Toys	N.A.
7.3	Toy Chests	N.A.
8.	Test Method	---
8.5	Normal Use Testing	PASS
8.5.1	Washable Toys	N.A.
8.7	Impact Test	PASS
8.8	Torque Test	PASS
8.9	Tension Test	PASS
8.9.1	Seam Test	N.A.
8.10	Compression Test	PASS
8.12	Flexure Test	N.A.
8.16	Tension Test for Pompoms	N.A.

N.A. = Not Applicable

2.2)4.2 Flammability

Ref: ASTM F 963-17 Section 4.2/A5

Flammability Test on Solid

Sample

Burning Rate (inch/sec)

Limit (inch/sec)

No.1

IBE

0.1

DNI = Did Not Ignite

IBE = Ignite But Self-Extinguished

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2.3) Heavy metal content in Toy Substrate Materials: ASTM F963-17 Section 4.3.5.2

Test Method: With reference to ASTM F963-17, analysis was performed by Inductively Coupled Plasma Optical Emission Spectrometer (ICP-OES).

Test Items	Unit	Results					MDL	Limit
		No.2	No.3	No.4	No.5	No.6		
Soluble Lead (Pb)	mg/kg	N.D.	N.D.	N.D.	N.D.	N.D.	5	90
Soluble Mercury (Hg)	mg/kg	N.D.	N.D.	N.D.	N.D.	N.D.	5	60
Soluble Cadmium (Cd)	mg/kg	N.D.	N.D.	N.D.	N.D.	N.D.	5	75
Soluble Chromium (Cr)	mg/kg	N.D.	N.D.	N.D.	N.D.	N.D.	5	60
Soluble Antimony (Sb)	mg/kg	N.D.	N.D.	N.D.	N.D.	N.D.	5	60
Soluble Arsenic (As)	mg/kg	N.D.	N.D.	N.D.	N.D.	N.D.	5	25
Soluble Barium (Ba)	mg/kg	N.D.	N.D.	N.D.	N.D.	N.D.	5	1000
Soluble Selenium (Se)	mg/kg	N.D.	N.D.	N.D.	N.D.	N.D.	5	500
Total Lead(Pb)	mg/kg	N.D.	N.D.	N.D.	N.D.	23	10	100

Note:

1. mg/kg = milligram per kilogram = ppm
2. N.D. = Not Detected (< MDL)
3. MDL = Method Detection Limit
4. The results of No.4, No.5, No.6 refer to the test report C210728016001-1

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Heavy metal content in paint and similar surface coating material : ASTM F963-17 Section 4.3.5.1

Test Method: With reference to ASTM F963-17, analysis was performed by Inductively Coupled Plasma Optical Emission Spectrometer (ICP-OES).

Test Items	Unit	Result	MDL	Limit
Soluble Lead (Pb)	mg/kg	N.A.	5	90
Soluble Mercury (Hg)	mg/kg	N.A.	5	60
Soluble Cadmium (Cd)	mg/kg	N.A.	5	75
Soluble Chromium (Cr)	mg/kg	N.A.	5	60
Soluble Antimony (Sb)	mg/kg	N.A.	5	60
Soluble Arsenic (As)	mg/kg	N.A.	5	25
Soluble Barium (Ba)	mg/kg	N.A.	5	1000
Soluble Selenium (Se)	mg/kg	N.A.	5	500
Total Lead(Pb)	mg/kg	N.A.	10	90

Note:

1. mg/kg = milligram per kilogram = ppm
2. N.A. = Not Applicable
3. MDL = Method Detection Limit

3. Lead in Non-Metal Children's Products (CPSC-CH-E1002-08.3:2012)

- USA Consumer Product Safety Improvement Act (CPSIA) Sec.101.(a)

Test Method: With reference to CPSC-CH-E1002-08.3:2012, analysis was performed by Inductively Coupled Plasma Optical Emission Spectrometer (ICP-OES).

Test Item	Unit	Result					MDL	Limit
		No.2	No.3	No.4	No.5	No.6		
Lead (Pb)	mg/kg	N.D.	N.D.	N.D.	N.D.	23	10	100

Note:

1. mg/kg = milligram per kilogram= ppm
2. N.D. = Not Detected (< MDL)
3. MDL = Method Detection Limit
4. The results of No.4,No.5,No.6 refer to the test report C210728016001-1

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4. Lead Content for coating—USA Consumer Product Safety Improvement Act (CPSIA) Sec.101.(f)

Test Method: With reference to CPSC-CH-E1003-09.1:2011, analysis was performed by Inductively Coupled Plasma Optical Emission Spectrometer (ICP-OES).

Test Item	Unit	Result	MDL	Limit
Lead (Pb)	mg/kg	N.A.	10	90

Note:

1. mg/kg = milligram per kilogram= ppm
2. N.A. = Not Applicable
3. MDL = Method Detection Limit

5. Lead Paint Regulation - 16 CFR Part 1303 (CPSC-CH-E1003-09.1)

Test Method: With reference to CPSC-CH-E1003-09.1:2011, analysis was performed by Inductively Coupled Plasma Optical Emission Spectrometer (ICP-OES).

Test Item	Unit	Result	MDL	Limit
Lead (Pb)	mg/kg	N.A.	10	90

Note:

1. mg/kg = milligram per kilogram= ppm
2. N.A. = Not Applicable
3. MDL = Method Detection Limit

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6. Determination of Phthalates (CPSC-CH-C1001:09.4)

-USA Consumer Product Safety Improvement Act (CPSIA) Sec.108

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

Test Item	CAS No.	Unit	Result		MDL	Limit
			No.2	No.3		
Di-(2-ethylhexyl) phthalate (DEHP)	117-81-7	%(w/w)	N.D.	N.D.	0.005	0.1
Di-butyl phthalate (DBP)	84-74-2	%(w/w)	N.D.	N.D.	0.005	0.1
Butyl benzyl phthalate (BBP)	85-68-7	%(w/w)	N.D.	N.D.	0.005	0.1
Di-isononyl phthalate (DINP)	28553-12-0 68515-48-0	%(w/w)	N.D.	N.D.	0.010	0.1
Di-n-pentyl phthalate(DPENP)	131-18-0	%(w/w)	N.D.	N.D.	0.010	0.1
Di-n-hexyl phthalate(DHEXP)	84-75-3	%(w/w)	N.D.	N.D.	0.005	0.1
Di-isobutyl phthalate(DIBP)	84-69-5	%(w/w)	N.D.	N.D.	0.005	0.1
Dicyclohexyl phthalate(DCHP)	84-61-7	%(w/w)	N.D.	N.D.	0.005	0.1

Test Item	CAS No.	Unit	Result			MDL	Limit
			No.4	No.5	No.6		
Di-(2-ethylhexyl) phthalate (DEHP)	117-81-7	%(w/w)	N.D.	N.D.	N.D.	0.005	0.1
Di-butyl phthalate (DBP)	84-74-2	%(w/w)	N.D.	N.D.	N.D.	0.005	0.1
Butyl benzyl phthalate (BBP)	85-68-7	%(w/w)	N.D.	N.D.	N.D.	0.005	0.1
Di-isononyl phthalate (DINP)	28553-12-0 68515-48-0	%(w/w)	N.D.	N.D.	N.D.	0.010	0.1
Di-n-pentyl phthalate(DPENP)	131-18-0	%(w/w)	N.D.	N.D.	N.D.	0.010	0.1
Di-n-hexyl phthalate(DHEXP)	84-75-3	%(w/w)	N.D.	N.D.	N.D.	0.005	0.1
Di-isobutyl phthalate(DIBP)	84-69-5	%(w/w)	N.D.	N.D.	N.D.	0.005	0.1
Dicyclohexyl phthalate(DCHP)	84-61-7	%(w/w)	N.D.	N.D.	N.D.	0.005	0.1

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- Note:
1. % = percentage by weight.
 2. 0.0001% = 1 mg/kg.
 3. MDL = Method Detection Limit.
 4. N.D. = Not Detected (< MDL)
 5. Children's toys and child care articles that contains concentrations of not more than 0.1% of Di-(2-ethylhexyl) phthalate (DEHP), Di-butyl phthalate (DBP), or Butyl benzyl phthalate (BBP), Di-isononyl phthalate (DINP), Di-n-pentyl phthalate(DPENP), Di-n-hexyl phthalate(DHEXP), Di-isobutyl phthalate(DIBP), Dicyclohexyl phthalate(DCHP).
 6. The results of No.4,No.5,No.6 refer to the test report C210728016001-1

7.16 CFR 1501 Small part rule

16 CFR 1500.48 Sharp Point

16 CFR 1500.49 Sharp Edge

Test Method: AS SPECIFIED IN TITLE 16, CODE OF FEDERAL REGULATIONS, CHAPTER II – CONSUMER PRODUCTS SAFETY COMMISSION OF U.S.A.

	NO. OF SAMPLE TESTED	SHARP POINT (1500.48)	SHARP EDGE (1500.49)	SMALL PART (1501)
As received	No.1	Pass	Pass	Pass
Impact Test (Sec.1500.52b)	No.1	N.A.	N.A.	N.A.
Bite Test (Sec.1500.52c)	No.1	N.A.	N.A.	N.A.
Flexure Test (Sec.1500.52d)	No.1	N.A.	N.A.	N.A.
Torque Test (Sec.1500.52e)	No.1	Pass	Pass	Pass
Tension Test (Sec.1500.52f)	No.1	Pass	Pass	Pass
Compression Test (Sec.1500.52g)	No.1	Pass	Pass	Pass

Note :

1. N.A.= Not applicable
2. 16CFR 1500.52 for over 18 months but not over 36 months.

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8.As specified in Consumer Product Safety Improvement Act (CPSIA) of 2008 section 103 tracking labels for children's products

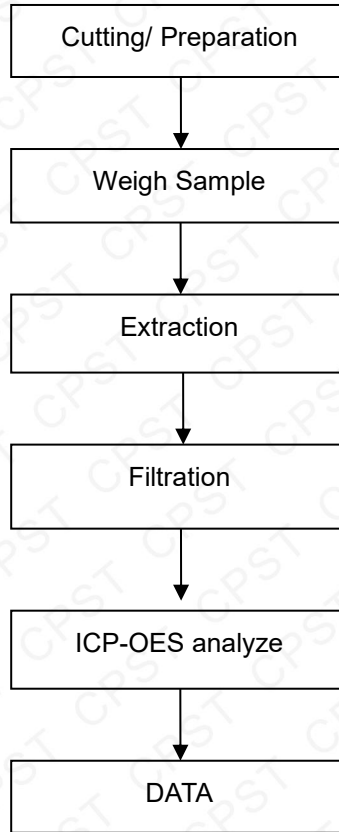
CPSIA Section 103	Tracking label found on the packaging:	Note
	1. Name:	Present
	2. Location:	Present
	3. Date:	Present
	4. Cohort information:	Present
	Tracking label found on the product:	Not Applicable

Note: The tracking label assessment was based on the submitted samples and the information provided by the applicant. There was no verification on the validity of such information.

Remark: As specified by applicant, to test content in the selected materials of the submitted samples. The test results are only responsible for the submitted sample.

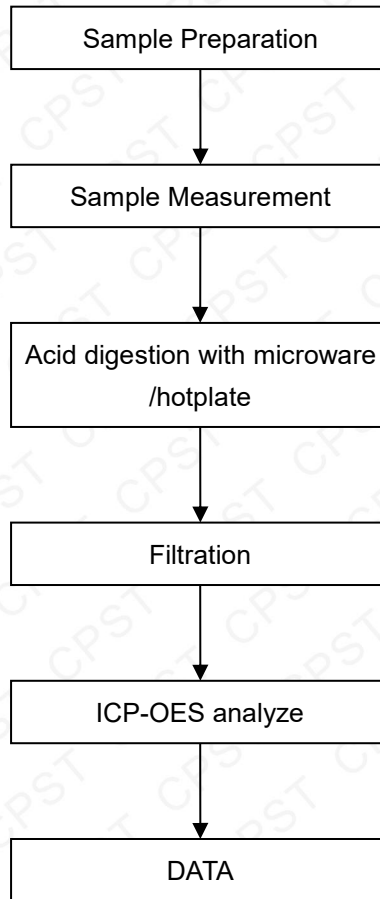
Note: This Test report shall be invalid if it is not stamped with the special seal for testing. Only responsible for the tested samples, invalid if rewritten, added and deleted. This test report cannot be reproduced, except in full, without prior written permission of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this report is unlawful and offenders may be prosecuted to the fullest extent of the law. Any demurral to the content of test report, please propose in 15 days after the report's sending out, it will not be accepted after this date.

Soluble Migrated Element Testing Flow Chart



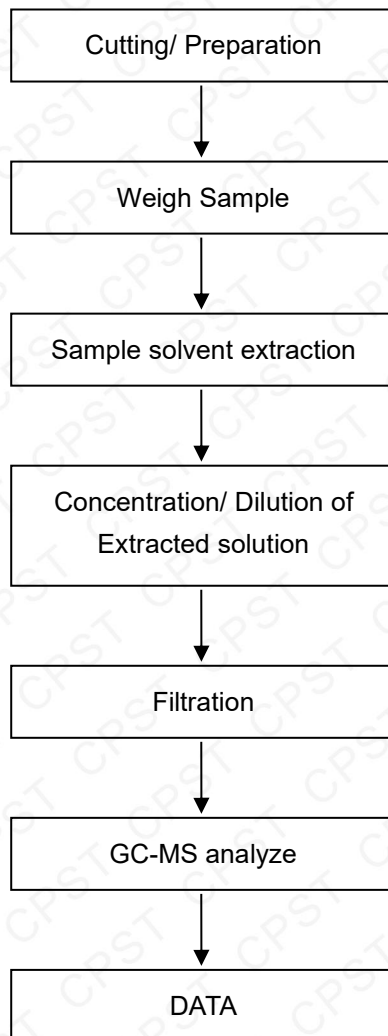
Note: This Test report shall be invalid if it is not stamped with the special seal for testing. Only responsible for the tested samples, invalid if rewritten, added and deleted. This test report cannot be reproduced, except in full, without prior written permission of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this report is unlawful and offenders may be prosecuted to the fullest extent of the law. Any demurral to the content of test report, please propose in 15 days after the report's sending out, it will not be accepted after this date.

Lead Testing Flow Chart



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Phthalates Testing Flow Chart



All the results refer to test report C210809142002-1A.

*** End of Report ***

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