

Test Report

Report No.: RGST240709106R02

Revision Date: Oct 10, 2024

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Instead of RGST240709106R01

Date: Aug 05, 2024

Applicant : TIANJIN IBIZA GLASS BEAD CO., LTD.
Address : NO.16.FUYUAN ROAD.JINGBIN INDUSTRIAL PARK,
WUQING DISTRICT.TIANJIN. CHINA

Report on the submitted sample(s) said to be:

Sample(s) Name : IBIZA MODELING SAND 1KG, IBIZA MODELING SAND BOX SET,
24 COLORS AIR DRY CLAY SET, Penguin air dry clay DIY set
Model : 1LGGs-MY, 2LGGs-MY, 2LGGC-MY, 1LGGC-MY
Labeled Age Grading : 3 years and over
Requested Age Grade : 3 years and over
Tested Age Grading : 3 years and over
Sample(s) received date : Jul 09, 2024& Jul 29, 2024& Sep 02, 2024
Testing period : From Jul 09, 2024 to Sep 27, 2024

Test Requested

As requested by the applicant, refer to attached page(s) for details.



Eason *Ben*
Eason Zeng Ben Miao
Physical Chemical
Technical Manager Technical Manager

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	Test Standard	Conclusion
1	EN 71-1:2014+A1:2018-Mechanical and physical properties.	Pass
2	Labeling requirements of “CE marking, manufacturer/importer name and address, and product identification” under “Directive 2009/48/EC Safety of Toy”.	Pass
3	EN 71-2:2020 -Flammability.	Pass
4	Consumer Product Safety Improvement Act (CPSIA) of 2008 section 103-Tracking Labels for Children's Products- Tracking label requirement.	SEE RESULT PAGE
5	EN 71-3:2019+A1:2021- Migration of Certain Elements content.	Pass
6	Item 51&52 of Annex XVII of REACH Regulation (EC) 1907/2006- DEHP、DBP、BBP、DIBP、DINP、DIDP and DNOP content.	Pass

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Photograph(s) of Sample



Original sample



Original sample



Original sample



Original sample

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Original sample



Original sample



Retest sample



Retest sample

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Complement sample



Retest sample



Retest sample

GST authenticate the photo on original report only

Specimen Description:

No.	Test sample(s) name
1	IBIZA MODELING SAND 1KG, IBIZA MODELING SAND BOX SET, 24 COLORS AIR DRY CLAY SET, Penguin air dry clay DIY set

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Results:

(1) Mechanical and physical properties – EN 71-1:2014+A1:2018

Clause	Test request	Result(s)	Verdict
4	General requirements		
4.1	Material cleanliness	M	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	M	Pass
4.8	Points and metallic wires	M	Pass
4.9	Protruding parts	NA	/
4.10	Parts moving against each other		
4.10.1	Folding and sliding mechanisms	NA	/
4.10.2	Driving mechanisms	NA	/
4.10.3	Hinges	NA	/
4.10.4	Springs	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		
4.14.1	Toy which a child can enter	NA	/
4.14.2	Masks and helmets	NA	/
4.15	Toys intended to bear the mass of a child		
4.15.1	Toys propelled by a child or by other means	NA	/
4.15.2	Toy bicycles	NA	/
4.15.3	Rocking horses and similar toys	NA	/

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Clause	Test request	Result(s)	Verdict
4.15.4	Toys not propelled by child	NA	/
4.15.5	Toy scooters	NA	/
4.16	Heavy immobile toys	NA	/
4.17	Projectile toys		
4.17.1	General	NA	/
4.17.2	All projectiles	NA	/
4.17.3	Projectile toys with stored energy	NA	/
4.17.4	Certain projectile toys without stored energy	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 costumes	NA	/
4.27	Flying toys	NA	/
5	Toys intended for children under 36 months		
5.1	General requirements	NA	/
5.2	Soft-filled toys and soft-filled parts of a 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	/

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Clause	Test request	Result(s)	Verdict
5.8	Shape and size of certain toys	NA	/
5.9	Toy comprising monofilament fiber	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	/
5.15	Sledges with cords for pulling	NA	/
6	Packaging	M	Pass
7	Warning, marking and instructions for use		
7.1	General	M (See Note 1)	Pass
7.2	Toys not intended for children under 36 months	M (See Note 1)	Pass
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	Projectile toys	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 strung across a cradle, cot, or perambulator	NA	/
7.12	Liquid-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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Clause	Test request	Result(s)	Verdict
7.16	Toys intended to bear the mass of a child	NA	/
7.17	Toys comprising monofilament fibers	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	/

Note:

- No final package provided, but artwork of packaging was provided for review thus font size not verified.
- M = Meet NA = Not Applicable

(2) 2009/48/EC general labeling requirement

Requirement	Result(s)	Verdict
CE Marking	M (See Note 1)	Pass
Manufacturer/importer name and address	M (See Note 1)	Pass
Product identification	M (See Note 1)	Pass

Note:

- No final package provided, but artwork of packaging was provided for review thus font size not verified.
- M = Meet

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(3) Flammability – EN 71-2:2020

Clause	Test request	Result(s)	Verdict
4	Requirement		
4.1	Cellulose nitrate	M	Pass
4.1	Highly flammable solids	M	Pass
4.1	Surface flash on a piled surface	NA	/
4.1	Flammable gases	NA	/
4.1	Extremely flammable liquids, highly flammable liquids, flammable liquids and flammable gels	NA	/
4.2	Toys to be worn on the head	NA	/
4.3	Toy disguise costumes and toys intended to be worn by child in play	NA	/
4.3	warning on product and packaging (10 - 30 mm/s)	NA	/
4.4	Toys intended to be entered by child	NA	/
4.4	warning on product and packaging (10 - 30 mm/s)	NA	/
4.5	Soft-filled toys	NA	/

Note:

1. M = Meet NA = Not Applicable

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(4) CPSIA Tracking labels

Test method: As per CPSIA 2008 sec. 103. Tracking labels for children's products.

Result:

Requirement	Result(s)	Verdict
On Packaging		
Present on packaging	M (See Note 1)	Pass
Permanent		
Manufacturer or private labeler		
Location of production (City and country)		
Date of production (month and year)		
On Product		
Present on product	NA	/
Permanent	NA	/
Location of production (City and country)	NA	/
Date of production (month and year)	NA	/
Manufacturer or private labeler	NA	/

Note:

- Tracking labels evaluated based on the design draft provided by the client.
- M = Meet NA = Not Applicable

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Specimen Description:

No.	Test part(s) name
1	Light blue plastic, tray
2	Red plastic, model
3	Yellow plastic, model
4	Blue plastic, model
5	Bright yellow plastic, model
6	Bright orange plastic, model
7	Bright green plastic, model
8	Rose red plastic, model
9	Sky blue plastic, knife
10	Pink clay
11	Bright green clay
12	Light blue clay
13	Light purple clay
14	Black clay
15	White clay
16	Red clay
17	Orange clay
18	Yellow clay
19	Bright yellow clay
20	Green clay
21	Grass green clay
22	Lilac clay
23	Fuchsia clay
24	Orange red clay
25	Beige clay
26	Pale pink clay

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No.	Test part(s) name
27	Fluorescent pink clay
28	Dark green clay
29	Light green clay
30	Blue clay
31	Royal blue clay
32	Dull blue clay
33	Purple clay
34	Earthy yellow clay
35	Dark grey clay
36	Brown clay
37	Coffee clay
38	Orange pink plastic, accessory

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

Test Method: EN 71-3:2019+A1:2021

Test Instrument: Inductively Coupled Plasma Optical Emission Spectrometer (ICP-OES),
Inductively Coupled Plasma Mass Spectrometer (ICP-MS)

Liquid Chromatography-Inductively Coupled Plasma Mass Spectrometer (LC-ICP-MS)

Test item(s)	Unit	MDL	Limit (mg/kg)			Result(s)		
			Category 1: dry, brittle, powder-like, or pliable materials	Category 2: liquid, or sticky materials	Category 3: scraped-off materials	1	2	3
Al	mg/kg	2	2250	560	28130	N.D.	N.D.	N.D.
Sb	mg/kg	2	45	11.3	560	N.D.	N.D.	N.D.
As	mg/kg	0.5	3.8	0.9	47	N.D.	N.D.	N.D.
Ba	mg/kg	2	1500	375	18750	N.D.	N.D.	N.D.
B	mg/kg	2	1200	300	15000	N.D.	N.D.	N.D.
Cd	mg/kg	0.2	1.3	0.3	17	N.D.	N.D.	N.D.
Cr III	mg/kg	2	37.5	9.4	460	N.D.	N.D.	N.D.
Cr VI	mg/kg	0.015	0.02	0.005	0.053	N.D.	N.D.	N.D.
Co	mg/kg	2	10.5	2.6	130	N.D.	N.D.	N.D.
Cu	mg/kg	2	622.5	156	7700	N.D.	N.D.	N.D.
Pb	mg/kg	0.2	2.0	0.5	23	N.D.	N.D.	N.D.
Mn	mg/kg	2	1200	300	15000	N.D.	N.D.	N.D.
Hg	mg/kg	1	7.5	1.9	94	N.D.	N.D.	N.D.
Ni	mg/kg	2	75	18.8	930	N.D.	N.D.	N.D.
Se	mg/kg	2	37.5	9.4	460	N.D.	N.D.	N.D.
Sr	mg/kg	2	4500	1125	56000	N.D.	N.D.	N.D.
Sn	mg/kg	0.2	15000	3750	180000	N.D.	N.D.	N.D.
Organic tin	mg/kg	0.2	0.9	0.2	12	N.D.	N.D.	N.D.
Zn	mg/kg	2	3750	938	46000	N.D.	N.D.	N.D.

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Test item(s)	Unit	MDL	Limit (mg/kg)			Result(s)		
			Category 1: dry, brittle, powder-like, or pliable materials	Category 2: liquid, or sticky materials	Category 3: scraped-off materials	4	5	6
Al	mg/kg	2	2250	560	28130	N.D.	N.D.	N.D.
Sb	mg/kg	2	45	11.3	560	N.D.	N.D.	N.D.
As	mg/kg	0.5	3.8	0.9	47	N.D.	N.D.	N.D.
Ba	mg/kg	2	1500	375	18750	N.D.	N.D.	N.D.
B	mg/kg	2	1200	300	15000	N.D.	N.D.	N.D.
Cd	mg/kg	0.2	1.3	0.3	17	N.D.	N.D.	N.D.
Cr III	mg/kg	2	37.5	9.4	460	N.D.	N.D.	N.D.
Cr VI	mg/kg	0.015	0.02	0.005	0.053	N.D.	N.D.	N.D.
Co	mg/kg	2	10.5	2.6	130	N.D.	N.D.	N.D.
Cu	mg/kg	2	622.5	156	7700	N.D.	N.D.	N.D.
Pb	mg/kg	0.2	2.0	0.5	23	N.D.	N.D.	N.D.
Mn	mg/kg	2	1200	300	15000	N.D.	N.D.	N.D.
Hg	mg/kg	1	7.5	1.9	94	N.D.	N.D.	N.D.
Ni	mg/kg	2	75	18.8	930	N.D.	N.D.	N.D.
Se	mg/kg	2	37.5	9.4	460	N.D.	N.D.	N.D.
Sr	mg/kg	2	4500	1125	56000	N.D.	N.D.	N.D.
Sn	mg/kg	0.2	15000	3750	180000	N.D.	N.D.	N.D.
Organic tin	mg/kg	0.2	0.9	0.2	12	N.D.	N.D.	N.D.
Zn	mg/kg	2	3750	938	46000	N.D.	N.D.	N.D.

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Test item(s)	Unit	MDL	Limit (mg/kg)			Result(s)		
			Category 1: dry, brittle, powder-like, or pliable materials	Category 2: liquid, or sticky materials	Category 3: scraped-off materials	7	8	9
Al	mg/kg	2	2250	560	28130	N.D.	N.D.	N.D.
Sb	mg/kg	2	45	11.3	560	N.D.	N.D.	N.D.
As	mg/kg	0.5	3.8	0.9	47	N.D.	N.D.	N.D.
Ba	mg/kg	2	1500	375	18750	N.D.	N.D.	N.D.
B	mg/kg	2	1200	300	15000	N.D.	N.D.	N.D.
Cd	mg/kg	0.2	1.3	0.3	17	N.D.	N.D.	N.D.
Cr III	mg/kg	2	37.5	9.4	460	N.D.	N.D.	N.D.
Cr VI	mg/kg	0.015	0.02	0.005	0.053	N.D.	N.D.	N.D.
Co	mg/kg	2	10.5	2.6	130	N.D.	N.D.	N.D.
Cu	mg/kg	2	622.5	156	7700	N.D.	N.D.	N.D.
Pb	mg/kg	0.2	2.0	0.5	23	N.D.	N.D.	N.D.
Mn	mg/kg	2	1200	300	15000	N.D.	N.D.	N.D.
Hg	mg/kg	1	7.5	1.9	94	N.D.	N.D.	N.D.
Ni	mg/kg	2	75	18.8	930	N.D.	N.D.	N.D.
Se	mg/kg	2	37.5	9.4	460	N.D.	N.D.	N.D.
Sr	mg/kg	2	4500	1125	56000	N.D.	N.D.	N.D.
Sn	mg/kg	0.2	15000	3750	180000	N.D.	N.D.	N.D.
Organic tin	mg/kg	0.2	0.9	0.2	12	N.D.	N.D.	N.D.
Zn	mg/kg	2	3750	938	46000	N.D.	N.D.	N.D.

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Date: Aug 05, 2024

Test item(s)	Unit	MDL	Limit (mg/kg)			Result(s)		
			Category 1: dry, brittle, powder-like, or pliable materials	Category 2: liquid, or sticky materials	Category 3: scraped-off materials	10	11	12
Al	mg/kg	2	2250	560	28130	N.D.	N.D.	N.D.
Sb	mg/kg	2	45	11.3	560	N.D.	N.D.	N.D.
As	mg/kg	0.5	3.8	0.9	47	N.D.	N.D.	N.D.
Ba	mg/kg	2	1500	375	18750	N.D.	N.D.	N.D.
B	mg/kg	2	1200	300	15000	190	286	254
Cd	mg/kg	0.2	1.3	0.3	17	N.D.	N.D.	N.D.
Cr III	mg/kg	2	37.5	9.4	460	N.D.	N.D.	N.D.
Cr VI	mg/kg	0.015	0.02	0.005	0.053	N.D.	N.D.	N.D.
Co	mg/kg	2	10.5	2.6	130	N.D.	N.D.	N.D.
Cu	mg/kg	2	622.5	156	7700	N.D.	N.D.	N.D.
Pb	mg/kg	0.2	2.0	0.5	23	N.D.	N.D.	N.D.
Mn	mg/kg	2	1200	300	15000	N.D.	N.D.	N.D.
Hg	mg/kg	1	7.5	1.9	94	N.D.	N.D.	N.D.
Ni	mg/kg	2	75	18.8	930	N.D.	N.D.	N.D.
Se	mg/kg	2	37.5	9.4	460	N.D.	N.D.	N.D.
Sr	mg/kg	2	4500	1125	56000	N.D.	N.D.	N.D.
Sn	mg/kg	0.2	15000	3750	180000	N.D.	N.D.	N.D.
Organic tin	mg/kg	0.2	0.9	0.2	12	N.D.	N.D.	N.D.
Zn	mg/kg	2	3750	938	46000	N.D.	N.D.	N.D.

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Test item(s)	Unit	MDL	Limit (mg/kg)			Result(s)		
			Category 1: dry, brittle, powder-like, or pliable materials	Category 2: liquid, or sticky materials	Category 3: scraped-off materials	13	14	15
Al	mg/kg	2	2250	560	28130	N.D.	N.D.	N.D.
Sb	mg/kg	2	45	11.3	560	N.D.	N.D.	N.D.
As	mg/kg	0.5	3.8	0.9	47	N.D.	N.D.	N.D.
Ba	mg/kg	2	1500	375	18750	N.D.	N.D.	N.D.
B	mg/kg	2	1200	300	15000	208	764	750
Cd	mg/kg	0.2	1.3	0.3	17	N.D.	N.D.	N.D.
Cr III	mg/kg	2	37.5	9.4	460	N.D.	N.D.	N.D.
Cr VI	mg/kg	0.015	0.02	0.005	0.053	N.D.	N.D.	N.D.
Co	mg/kg	2	10.5	2.6	130	N.D.	N.D.	N.D.
Cu	mg/kg	2	622.5	156	7700	N.D.	N.D.	N.D.
Pb	mg/kg	0.2	2.0	0.5	23	N.D.	N.D.	N.D.
Mn	mg/kg	2	1200	300	15000	N.D.	N.D.	N.D.
Hg	mg/kg	1	7.5	1.9	94	N.D.	N.D.	N.D.
Ni	mg/kg	2	75	18.8	930	N.D.	N.D.	N.D.
Se	mg/kg	2	37.5	9.4	460	N.D.	N.D.	N.D.
Sr	mg/kg	2	4500	1125	56000	N.D.	N.D.	N.D.
Sn	mg/kg	0.2	15000	3750	180000	N.D.	N.D.	N.D.
Organic tin	mg/kg	0.2	0.9	0.2	12	N.D.	N.D.	N.D.
Zn	mg/kg	2	3750	938	46000	N.D.	N.D.	N.D.

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Test item(s)	Unit	MDL	Limit (mg/kg)			Result(s)		
			Category 1: dry, brittle, powder-like, or pliable materials	Category 2: liquid, or sticky materials	Category 3: scraped-off materials	16	17	18
Al	mg/kg	2	2250	560	28130	N.D.	N.D.	N.D.
Sb	mg/kg	2	45	11.3	560	N.D.	N.D.	N.D.
As	mg/kg	0.5	3.8	0.9	47	N.D.	N.D.	N.D.
Ba	mg/kg	2	1500	375	18750	N.D.	N.D.	N.D.
B	mg/kg	2	1200	300	15000	754	730	687
Cd	mg/kg	0.2	1.3	0.3	17	N.D.	N.D.	N.D.
Cr III	mg/kg	2	37.5	9.4	460	N.D.	N.D.	N.D.
Cr VI	mg/kg	0.015	0.02	0.005	0.053	N.D.	N.D.	N.D.
Co	mg/kg	2	10.5	2.6	130	N.D.	N.D.	N.D.
Cu	mg/kg	2	622.5	156	7700	N.D.	N.D.	N.D.
Pb	mg/kg	0.2	2.0	0.5	23	N.D.	N.D.	N.D.
Mn	mg/kg	2	1200	300	15000	N.D.	N.D.	N.D.
Hg	mg/kg	1	7.5	1.9	94	N.D.	N.D.	N.D.
Ni	mg/kg	2	75	18.8	930	N.D.	N.D.	N.D.
Se	mg/kg	2	37.5	9.4	460	N.D.	N.D.	N.D.
Sr	mg/kg	2	4500	1125	56000	N.D.	N.D.	N.D.
Sn	mg/kg	0.2	15000	3750	180000	N.D.	N.D.	N.D.
Organic tin	mg/kg	0.2	0.9	0.2	12	N.D.	N.D.	N.D.
Zn	mg/kg	2	3750	938	46000	N.D.	N.D.	N.D.

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Test item(s)	Unit	MDL	Limit (mg/kg)			Result(s)		
			Category 1: dry, brittle, powder-like, or pliable materials	Category 2: liquid, or sticky materials	Category 3: scraped-off materials	19	20	21
Al	mg/kg	2	2250	560	28130	N.D.	N.D.	N.D.
Sb	mg/kg	2	45	11.3	560	N.D.	N.D.	N.D.
As	mg/kg	0.5	3.8	0.9	47	N.D.	N.D.	N.D.
Ba	mg/kg	2	1500	375	18750	N.D.	N.D.	N.D.
B	mg/kg	2	1200	300	15000	716	682	664
Cd	mg/kg	0.2	1.3	0.3	17	N.D.	N.D.	N.D.
Cr III	mg/kg	2	37.5	9.4	460	N.D.	N.D.	N.D.
Cr VI	mg/kg	0.015	0.02	0.005	0.053	N.D.	N.D.	N.D.
Co	mg/kg	2	10.5	2.6	130	N.D.	N.D.	N.D.
Cu	mg/kg	2	622.5	156	7700	N.D.	N.D.	N.D.
Pb	mg/kg	0.2	2.0	0.5	23	N.D.	N.D.	N.D.
Mn	mg/kg	2	1200	300	15000	N.D.	N.D.	N.D.
Hg	mg/kg	1	7.5	1.9	94	N.D.	N.D.	N.D.
Ni	mg/kg	2	75	18.8	930	N.D.	N.D.	N.D.
Se	mg/kg	2	37.5	9.4	460	N.D.	N.D.	N.D.
Sr	mg/kg	2	4500	1125	56000	N.D.	N.D.	N.D.
Sn	mg/kg	0.2	15000	3750	180000	N.D.	N.D.	N.D.
Organic tin	mg/kg	0.2	0.9	0.2	12	N.D.	N.D.	N.D.
Zn	mg/kg	2	3750	938	46000	N.D.	N.D.	N.D.

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Test item(s)	Unit	MDL	Limit (mg/kg)			Result(s)		
			Category 1: dry, brittle, powder-like, or pliable materials	Category 2: liquid, or sticky materials	Category 3: scraped-off materials	22	23	24
Al	mg/kg	2	2250	560	28130	N.D.	N.D.	N.D.
Sb	mg/kg	2	45	11.3	560	N.D.	N.D.	N.D.
As	mg/kg	0.5	3.8	0.9	47	N.D.	N.D.	N.D.
Ba	mg/kg	2	1500	375	18750	N.D.	N.D.	N.D.
B	mg/kg	2	1200	300	15000	636	628	648
Cd	mg/kg	0.2	1.3	0.3	17	N.D.	N.D.	N.D.
Cr III	mg/kg	2	37.5	9.4	460	N.D.	N.D.	N.D.
Cr VI	mg/kg	0.015	0.02	0.005	0.053	N.D.	N.D.	N.D.
Co	mg/kg	2	10.5	2.6	130	N.D.	N.D.	N.D.
Cu	mg/kg	2	622.5	156	7700	N.D.	N.D.	N.D.
Pb	mg/kg	0.2	2.0	0.5	23	N.D.	N.D.	N.D.
Mn	mg/kg	2	1200	300	15000	N.D.	N.D.	N.D.
Hg	mg/kg	1	7.5	1.9	94	N.D.	N.D.	N.D.
Ni	mg/kg	2	75	18.8	930	N.D.	N.D.	N.D.
Se	mg/kg	2	37.5	9.4	460	N.D.	N.D.	N.D.
Sr	mg/kg	2	4500	1125	56000	N.D.	N.D.	N.D.
Sn	mg/kg	0.2	15000	3750	180000	N.D.	N.D.	N.D.
Organic tin	mg/kg	0.2	0.9	0.2	12	N.D.	N.D.	N.D.
Zn	mg/kg	2	3750	938	46000	N.D.	N.D.	N.D.

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Test item(s)	Unit	MDL	Limit (mg/kg)			Result(s)		
			Category 1: dry, brittle, powder-like, or pliable materials	Category 2: liquid, or sticky materials	Category 3: scraped-off materials	25	26	27
Al	mg/kg	2	2250	560	28130	N.D.	N.D.	N.D.
Sb	mg/kg	2	45	11.3	560	N.D.	N.D.	N.D.
As	mg/kg	0.5	3.8	0.9	47	N.D.	N.D.	N.D.
Ba	mg/kg	2	1500	375	18750	N.D.	N.D.	N.D.
B	mg/kg	2	1200	300	15000	628	656	654
Cd	mg/kg	0.2	1.3	0.3	17	N.D.	N.D.	N.D.
Cr III	mg/kg	2	37.5	9.4	460	N.D.	N.D.	N.D.
Cr VI	mg/kg	0.015	0.02	0.005	0.053	N.D.	N.D.	N.D.
Co	mg/kg	2	10.5	2.6	130	N.D.	N.D.	N.D.
Cu	mg/kg	2	622.5	156	7700	N.D.	N.D.	N.D.
Pb	mg/kg	0.2	2.0	0.5	23	N.D.	N.D.	N.D.
Mn	mg/kg	2	1200	300	15000	N.D.	N.D.	N.D.
Hg	mg/kg	1	7.5	1.9	94	N.D.	N.D.	N.D.
Ni	mg/kg	2	75	18.8	930	N.D.	N.D.	N.D.
Se	mg/kg	2	37.5	9.4	460	N.D.	N.D.	N.D.
Sr	mg/kg	2	4500	1125	56000	N.D.	N.D.	N.D.
Sn	mg/kg	0.2	15000	3750	180000	N.D.	N.D.	N.D.
Organic tin	mg/kg	0.2	0.9	0.2	12	N.D.	N.D.	N.D.
Zn	mg/kg	2	3750	938	46000	N.D.	N.D.	N.D.

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Test item(s)	Unit	MDL	Limit (mg/kg)			Result(s)		
			Category 1: dry, brittle, powder-like, or pliable materials	Category 2: liquid, or sticky materials	Category 3: scraped-off materials	28	29	30
Al	mg/kg	2	2250	560	28130	N.D.	N.D.	N.D.
Sb	mg/kg	2	45	11.3	560	N.D.	N.D.	N.D.
As	mg/kg	0.5	3.8	0.9	47	N.D.	N.D.	N.D.
Ba	mg/kg	2	1500	375	18750	N.D.	N.D.	N.D.
B	mg/kg	2	1200	300	15000	686	623	655
Cd	mg/kg	0.2	1.3	0.3	17	N.D.	N.D.	N.D.
Cr III	mg/kg	2	37.5	9.4	460	N.D.	N.D.	N.D.
Cr VI	mg/kg	0.015	0.02	0.005	0.053	N.D.	N.D.	N.D.
Co	mg/kg	2	10.5	2.6	130	N.D.	N.D.	N.D.
Cu	mg/kg	2	622.5	156	7700	N.D.	N.D.	N.D.
Pb	mg/kg	0.2	2.0	0.5	23	N.D.	N.D.	N.D.
Mn	mg/kg	2	1200	300	15000	N.D.	N.D.	N.D.
Hg	mg/kg	1	7.5	1.9	94	N.D.	N.D.	N.D.
Ni	mg/kg	2	75	18.8	930	N.D.	N.D.	N.D.
Se	mg/kg	2	37.5	9.4	460	N.D.	N.D.	N.D.
Sr	mg/kg	2	4500	1125	56000	N.D.	N.D.	N.D.
Sn	mg/kg	0.2	15000	3750	180000	N.D.	N.D.	N.D.
Organic tin	mg/kg	0.2	0.9	0.2	12	N.D.	N.D.	N.D.
Zn	mg/kg	2	3750	938	46000	N.D.	N.D.	N.D.

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Test item(s)	Unit	MDL	Limit (mg/kg)			Result(s)		
			Category 1: dry, brittle, powder-like, or pliable materials	Category 2: liquid, or sticky materials	Category 3: scraped-off materials	31	32	33
Al	mg/kg	2	2250	560	28130	N.D.	N.D.	N.D.
Sb	mg/kg	2	45	11.3	560	N.D.	N.D.	N.D.
As	mg/kg	0.5	3.8	0.9	47	N.D.	N.D.	N.D.
Ba	mg/kg	2	1500	375	18750	N.D.	N.D.	N.D.
B	mg/kg	2	1200	300	15000	644	654	637
Cd	mg/kg	0.2	1.3	0.3	17	N.D.	N.D.	N.D.
Cr III	mg/kg	2	37.5	9.4	460	N.D.	N.D.	N.D.
Cr VI	mg/kg	0.015	0.02	0.005	0.053	N.D.	N.D.	N.D.
Co	mg/kg	2	10.5	2.6	130	N.D.	N.D.	N.D.
Cu	mg/kg	2	622.5	156	7700	217	102	N.D.
Pb	mg/kg	0.2	2.0	0.5	23	N.D.	N.D.	N.D.
Mn	mg/kg	2	1200	300	15000	N.D.	N.D.	N.D.
Hg	mg/kg	1	7.5	1.9	94	N.D.	N.D.	N.D.
Ni	mg/kg	2	75	18.8	930	N.D.	N.D.	N.D.
Se	mg/kg	2	37.5	9.4	460	N.D.	N.D.	N.D.
Sr	mg/kg	2	4500	1125	56000	N.D.	N.D.	N.D.
Sn	mg/kg	0.2	15000	3750	180000	N.D.	N.D.	N.D.
Organic tin	mg/kg	0.2	0.9	0.2	12	N.D.	N.D.	N.D.
Zn	mg/kg	2	3750	938	46000	N.D.	N.D.	N.D.

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Test item(s)	Unit	MDL	Limit (mg/kg)			Result(s)		
			Category 1: dry, brittle, powder-like, or pliable materials	Category 2: liquid, or sticky materials	Category 3: scraped-off materials	34	35	36
Al	mg/kg	2	2250	560	28130	N.D.	N.D.	N.D.
Sb	mg/kg	2	45	11.3	560	N.D.	N.D.	N.D.
As	mg/kg	0.5	3.8	0.9	47	N.D.	N.D.	N.D.
Ba	mg/kg	2	1500	375	18750	N.D.	N.D.	N.D.
B	mg/kg	2	1200	300	15000	672	710	620
Cd	mg/kg	0.2	1.3	0.3	17	N.D.	N.D.	N.D.
Cr III	mg/kg	2	37.5	9.4	460	N.D.	N.D.	N.D.
Cr VI	mg/kg	0.015	0.02	0.005	0.053	N.D.	N.D.	N.D.
Co	mg/kg	2	10.5	2.6	130	N.D.	N.D.	N.D.
Cu	mg/kg	2	622.5	156	7700	N.D.	N.D.	N.D.
Pb	mg/kg	0.2	2.0	0.5	23	N.D.	N.D.	N.D.
Mn	mg/kg	2	1200	300	15000	N.D.	N.D.	N.D.
Hg	mg/kg	1	7.5	1.9	94	N.D.	N.D.	N.D.
Ni	mg/kg	2	75	18.8	930	N.D.	N.D.	N.D.
Se	mg/kg	2	37.5	9.4	460	N.D.	N.D.	N.D.
Sr	mg/kg	2	4500	1125	56000	N.D.	N.D.	N.D.
Sn	mg/kg	0.2	15000	3750	180000	N.D.	N.D.	N.D.
Organic tin	mg/kg	0.2	0.9	0.2	12	N.D.	N.D.	N.D.
Zn	mg/kg	2	3750	938	46000	N.D.	N.D.	N.D.

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Test item(s)	Unit	MDL	Limit (mg/kg)			Result(s)	
			Category 1: dry, brittle, powder-like, or pliable materials	Category 2: liquid, or sticky materials	Category 3: scraped-off materials	37	38
Al	mg/kg	2	2250	560	28130	N.D.	N.D.
Sb	mg/kg	2	45	11.3	560	N.D.	N.D.
As	mg/kg	0.5	3.8	0.9	47	N.D.	N.D.
Ba	mg/kg	2	1500	375	18750	N.D.	N.D.
B	mg/kg	2	1200	300	15000	740	N.D.
Cd	mg/kg	0.2	1.3	0.3	17	N.D.	N.D.
Cr III	mg/kg	2	37.5	9.4	460	N.D.	N.D.
Cr VI	mg/kg	0.015	0.02	0.005	0.053	N.D.	N.D.
Co	mg/kg	2	10.5	2.6	130	N.D.	N.D.
Cu	mg/kg	2	622.5	156	7700	N.D.	N.D.
Pb	mg/kg	0.2	2.0	0.5	23	N.D.	N.D.
Mn	mg/kg	2	1200	300	15000	N.D.	N.D.
Hg	mg/kg	1	7.5	1.9	94	N.D.	N.D.
Ni	mg/kg	2	75	18.8	930	N.D.	N.D.
Se	mg/kg	2	37.5	9.4	460	N.D.	N.D.
Sr	mg/kg	2	4500	1125	56000	N.D.	N.D.
Sn	mg/kg	0.2	15000	3750	180000	N.D.	N.D.
Organic tin	mg/kg	0.2	0.9	0.2	12	N.D.	N.D.
Zn	mg/kg	2	3750	938	46000	N.D.	N.D.

-The sample of No. 1~9,38 of the migration content limit is Category 3.

-The sample of No. 10~37 of the migration content limit is Category 1.

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Remark:

1. The migration of organic tin is expressed as Tributyltin(TBT).
2. Confirmation test of soluble chromium (III) & chromium (VI) is not required in case of soluble chromium does not exceed their requirements as specified in EN 71-3:2019+A1:2021.
3. Confirmation test of soluble organic tin is not required in case of soluble tin, after conversion, does not exceed the soluble organic tin requirement as specified in EN 71-3:2019+A1:2021.

(6) Phthalates content- Item 51 & 52 of Annex XVII of REACH Regulation (EC) 1907/2006

Test Method: With reference to EN 14372:2004(E)

Test Instrument: Gas Chromatography-Mass Spectrometer (GC-MS)

Test item(s)	Unit	MDL	Limit	Result(s)			
				1+2+3	4+5+6	7+8+9	10+11+12
Bis-(2-ethylhexyl)Phthalate (DEHP)	mg/kg	50	1000	N.D.	N.D.	N.D.	N.D.
Dibutyl Phthalate (DBP)	mg/kg	50	1000	N.D.	N.D.	N.D.	N.D.
Benzylbutyl Phthalate (BBP)	mg/kg	50	1000	N.D.	N.D.	N.D.	N.D.
Diisobutyl phthalate (DIBP)	mg/kg	50	1000	N.D.	N.D.	N.D.	N.D.
Total(DEHP+ DBP+BBP+ DIBP)	mg/kg	/	1000	N.D.	N.D.	N.D.	N.D.
Diisononyl Phthalate (DINP)	mg/kg	100	/	N.D.	N.D.	N.D.	N.D.
Diisodecyl Phthalate (DIDP)	mg/kg	100	/	N.D.	N.D.	N.D.	N.D.
Di-n-octyl Phthalate (DNOP)	mg/kg	50	/	N.D.	N.D.	N.D.	N.D.
Total(DINP+ DIDP+DNOP)	mg/kg	/	1000	N.D.	N.D.	N.D.	N.D.

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Test item(s)	Unit	MDL	Limit	Result(s)			
				13+14+15	16+17+18	19+20+21	22
Bis-(2-ethylhexyl)Phthalate (DEHP)	mg/kg	50	1000	N.D.	N.D.	N.D.	N.D.
Dibutyl Phthalate (DBP)	mg/kg	50	1000	N.D.	N.D.	N.D.	N.D.
Benzylbutyl Phthalate (BBP)	mg/kg	50	1000	N.D.	N.D.	N.D.	N.D.
Diisobutyl phthalate (DIBP)	mg/kg	50	1000	N.D.	N.D.	N.D.	N.D.
Total(DEHP+ DBP+BBP+ DIBP)	mg/kg	/	1000	N.D.	N.D.	N.D.	N.D.
Diisononyl Phthalate (DINP)	mg/kg	100	/	N.D.	N.D.	N.D.	N.D.
Diisodecyl Phthalate (DIDP)	mg/kg	100	/	N.D.	N.D.	N.D.	N.D.
Di-n-octyl Phthalate (DNOP)	mg/kg	50	/	N.D.	N.D.	N.D.	N.D.
Total(DINP+ DIDP+DNOP)	mg/kg	/	1000	N.D.	N.D.	N.D.	N.D.

Test item(s)	Unit	MDL	Limit	Result(s)			
				23	24	25+26+27	28+29+30
Bis-(2-ethylhexyl)Phthalate (DEHP)	mg/kg	50	1000	N.D.	N.D.	N.D.	N.D.
Dibutyl Phthalate (DBP)	mg/kg	50	1000	N.D.	N.D.	N.D.	N.D.
Benzylbutyl Phthalate (BBP)	mg/kg	50	1000	N.D.	N.D.	N.D.	N.D.
Diisobutyl phthalate (DIBP)	mg/kg	50	1000	N.D.	N.D.	N.D.	N.D.
Total(DEHP+ DBP+BBP+ DIBP)	mg/kg	/	1000	N.D.	N.D.	N.D.	N.D.
Diisononyl Phthalate (DINP)	mg/kg	100	/	N.D.	N.D.	N.D.	N.D.
Diisodecyl Phthalate (DIDP)	mg/kg	100	/	N.D.	N.D.	N.D.	N.D.
Di-n-octyl Phthalate (DNOP)	mg/kg	50	/	N.D.	N.D.	N.D.	N.D.
Total(DINP+ DIDP+DNOP)	mg/kg	/	1000	N.D.	N.D.	N.D.	N.D.

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Test item(s)	Unit	MDL	Limit	Result(s)			
				31+32+33	34+35	36+37	38
Bis-(2-ethylhexyl)Phthalate (DEHP)	mg/kg	50	1000	N.D.	N.D.	N.D.	N.D.
Dibutyl Phthalate (DBP)	mg/kg	50	1000	N.D.	N.D.	N.D.	N.D.
Benzylbutyl Phthalate (BBP)	mg/kg	50	1000	N.D.	N.D.	N.D.	N.D.
Diisobutyl phthalate (DIBP)	mg/kg	50	1000	N.D.	N.D.	N.D.	N.D.
Total(DEHP+ DBP+BBP+ DIBP)	mg/kg	/	1000	N.D.	N.D.	N.D.	N.D.
Diisononyl Phthalate (DINP)	mg/kg	100	/	N.D.	N.D.	N.D.	N.D.
Diisodecyl Phthalate (DIDP)	mg/kg	100	/	N.D.	N.D.	N.D.	N.D.
Di-n-octyl Phthalate (DNOP)	mg/kg	50	/	N.D.	N.D.	N.D.	N.D.
Total(DINP+ DIDP+DNOP)	mg/kg	/	1000	N.D.	N.D.	N.D.	N.D.

- DIBP is not included in CNAS Accreditation scope.

Note:

- mg/kg=milligram per kilogram
- N.D. =Not Detected (<MDL)
- MDL=Method Detection Limit
- As specified by client, the mixed testing were conducted.
- This test report supersedes test report No. RGST240709106R01, the original test report is void.

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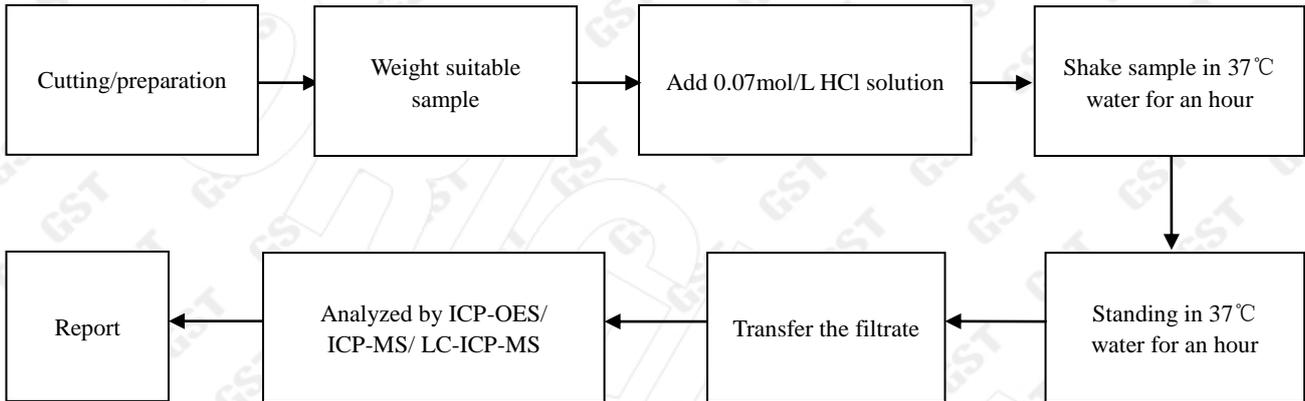
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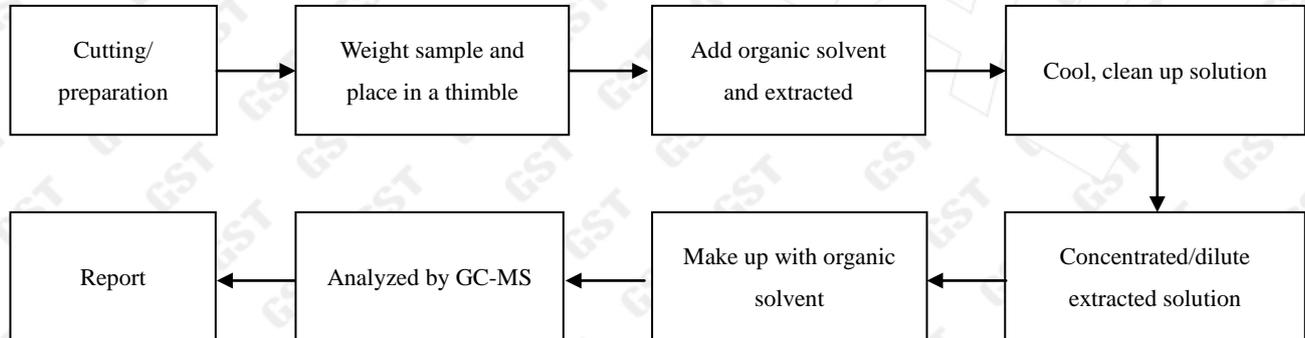
Date: Aug 05, 2024

Appendix

1. Test flowchart for soluble elements content:



2. Test flowchart for Phthalates content:



*** End of Report ***

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