

Test Report

No.: NBHL250300702001FT-1

Date: JUL. 22, 2025

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QINGDAO MERICH WOOD CO.,LTD
LIUJIAHOU VILLAGE BEIAN OFFICE, JIMO,QINGDAO,SHANDONG PROVINCE, CHINA

THE TEST REPORT IS TO SUPERSEDE THE TEST REPORT No.: NBHL250300702001FT, DATE: JUL. 10, 2025, ORIGINAL REPORT SHALL BE INVALID.

The following sample(s) was/were submitted and identified by the client as:

Sample Description : KIDS DINING TABLE SET

Style No. : A2010+A5001+ MRQ2503

Item No. : A2010+A5001+ MRQ2503

SKU No. : A2010+A5001+SLDK08+SLDKD01+HY10044+HW63872+
MRQ2503+A5015+A4013+A4012+SQK-2、SQK-26、A6002

Manufacturer : QINGDAO MERICH WOOD CO.,LTD

Country of Origin : CHINA

Sample Receiving Date : APR. 02, 2025

Testing Period : APR. 02, 2025 TO JUL. 10, 2025

Test Requested	Result
1. Entry 23 of Regulation (EU) 2016/217 amending Annex XVII of REACH Regulation (EC) No 1907/2006 - Cadmium and its compounds	Pass
2. Entry 50 of Regulation (EU) 2021/1199 amending Annex XVII of REACH Regulation (EC) No 1907/2006- Polycyclic Aromatic Hydrocarbons (PAHs)	Pass
3. Entry 52 of Regulation (EU) 2015/326 amending Annex XVII of REACH Regulation (EC) No 1907/2006 - Phthalate	Pass
4. Entry 63 of Regulation (EU) 2015/628 amending Annex XVII of REACH Regulation (EC) No 1907/2006 - Total Lead(coating)	Pass
5. Entry 51 of Regulation (EU) 2018/2005 amending Annex XVII of REACH Regulation (EC) No 1907/2006 - Phthalate	Pass
6. EN 71-3: 2019+ A2:2024 - Migration of certain elements	Pass
7. BS EN71-3: 2019+ A2:2024 - Migration of certain elements	Pass
8. ASTM F963-23, Clause 4.3.5.1 – Total Lead in Paint and Similar Surface-coating Materials	Pass
9. ASTM F963-23, Clause 4.3.5.1 – Soluble Heavy Metal in Paint and Similar Surface-coating Materials	Pass
10. ASTM F963-23, Clause 4.3.8 – Phthalates	Pass
11. Part 1303, Title 16, Code of Federal Regulations, Chapter II - Consumer Products Safety Commission of U.S.A.-Lead in paint/similar surface coating material	Pass
12. CPSIA section 101(f) - Lead in paint/similar surface coating material	Pass
13. CPSIA section 101(a)(2) - Lead in accessible substrate materials	Pass



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14. CONSUMER PRODUCT SAFETY COMMISSION-16 CFR Part 1307, Final Rule, amending CPSIA section 108, Prohibition on Sale of Certain Products Containing Specified Phthalates	Pass
15. Canada Consumer Product Safety Act (S.C. 2010, c. 21), Consumer Products Containing Lead (Contact with Mouth) Regulations SOR/2018-83 - Total Lead (Coating)	Pass
16. Canada Consumer Product Safety Act (S.C. 2010, c. 21), Phthalates Regulations (SOR/2016-188) - Phthalates	Pass
17. Canada Consumer Product Safety Act(S.C. 2010, c. 21),Surface Coating Materials Regulations SOR/2016-193 and its amendment SOR/2022-122- Total Lead in surface coating materials	Pass
18. Canada Consumer Product Safety Act (S.C. 2010, c. 21), Toys Regulations SOR/2011-17 and its amendment SOR/2022-122 (section 23) - Soluble Heavy Metal in surface coating	Pass
19. Canada Consumer Product Safety Act (S.C. 2010, c. 21), Toys Regulations SOR/2011-17 and its amendment SOR/2022-122 (section 23) - Total Lead in surface coating	Pass
20. Canada Consumer Product Safety Act (S.C. 2010, c. 21), Toys Regulations SOR/2011-17 and its amendment SOR/2022-122 (section 23) - Total Mercury in surface coating	Pass

Signed for and on behalf of

SGS-CSTC Standards Technical Services Co., Ltd. Ningbo Branch

Hattie Hu

Hattie Hu
Authorized Signatory



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Test Conducted:

Test Part Description:

SN ID	Sample No.	SGS Sample ID	Description
SN1	A4	NGB25-0020081-0001.C004	Blue coating
SN2	A5	NGB25-0020081-0001.C005	Transparent coating
SN3	A6	NGB25-0020081-0001.C006	Kelly coating
SN4	A7	NGB25-0020081-0001.C007	Gray coating
SN5	A8	NGB25-0020081-0001.C008	Beige-gray coating
SN6	A12	NGB25-0020081-0001.C012	Light gray-green paint
SN7	A13	NGB25-0020081-0001.C013	Pink paint
SN8	A14	NGB25-0020081-0001.C014	White paint
SN9	A15	NGB25-0020081-0001.C015	Orange paint
SN10	A16	NGB25-0020081-0001.C016	Grass-green paint
SN11	A17	NGB25-0020081-0001.C017	Yellow paint
SN12	A18	NGB25-0020081-0001.C018	Beige white fabric
SN13	A4+A5+A6	NGB25-0020081-0003	Blue coating + Transparent coating + Kelly coating
SN14	A4+A5	NGB25-0020081-0006	Blue coating + Transparent coating
SN15	A12+A13+A14	NGB25-0020081-0008	Light gray-green paint + Pink paint + White paint
SN16	A15+A16+A17	NGB25-0020081-0009	Orange paint + Grass-green paint + Yellow paint
SN17	A16+A17	NGB25-0020081-0010	Grass-green paint + Yellow paint
SN18	A7+A8+A15	NGB25-0020081-0011	Gray coating + Beige-gray coating + Orange paint
SN19	A5+A14+A17	NGB25-0020081-0012	Transparent coating + White paint + Yellow paint
SN20	A6+A7+A8	NGB25-0020081-0013	Kelly coating + Gray coating + Beige-gray coating
SN21	A4+A12+A13	NGB25-0020081-0014	Blue coating + Light gray-green paint + Pink paint
SN22	A15+A16	NGB25-0020081-0015	Orange paint + Grass-green paint

Remarks:

- (1) 1 mg/kg = 1 ppm = 0.0001%
- (2) MDL = Method Detection Limit
- (3) ND = Not Detected (< MDL)
- (4) “-” = Not Regulated

1. Entry 23 of Regulation (EU) 2016/217 amending Annex XVII of REACH Regulation (EC) No 1907/2006 - Cadmium and its compounds

Test Method: With reference to EN 1122:2001 Method B, analysis was performed by AAS or ICP-OES.



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Test Item(s)	Limit	Unit(s)	MDL	A5+A14+A17	A6+A7+A8	A4+A12+A13
Cadmium(Cd)	0.1	%	0.0005	ND	ND	ND
Conclusion				Pass	Pass	Pass

Test Item(s)	Limit	Unit(s)	MDL	A15+A16
Cadmium(Cd)	0.1	%	0.0005	ND
Conclusion				Pass

2. Entry 50 of Regulation (EU) 2021/1199 amending Annex XVII of REACH Regulation (EC) No 1907/2006- Polycyclic Aromatic Hydrocarbons (PAHs)

Test Method: With reference to AfPS GS 2019:01 PAK, analysis was performed by GC-MS.

Test Item(s)	CAS No.	Limit	Unit(s)	MDL	A5+A14+A17	A6+A7+A8	A4+A12+A13
Benzo(a)anthracene(BaA)	56-55-3	0.5	mg/kg	0.1	ND	ND	ND
Chrysene(CHR)	218-01-9	0.5	mg/kg	0.1	ND	ND	ND
Benzo(b)Fluoranthene(BbF)	205-99-2	0.5	mg/kg	0.1	ND	ND	ND
Benzo(j)fluoranthene(BjF)	205-82-3	0.5	mg/kg	0.1	ND	ND	ND
Benzo(k)Fluoranthene(BkF)	207-08-9	0.5	mg/kg	0.1	ND	ND	ND
Benzo(e)pyrene(BeP)	192-97-2	0.5	mg/kg	0.1	ND	ND	ND
Benzo(a)pyrene(BaP)	50-32-8	0.5	mg/kg	0.1	ND	ND	ND
Dibenzo(a,h)Anthracene(DBA)	53-70-3	0.5	mg/kg	0.1	ND	ND	ND
Conclusion					Pass	Pass	Pass

Test Item(s)	CAS No.	Limit	Unit(s)	MDL	A15+A16
Benzo(a)anthracene(BaA)	56-55-3	0.5	mg/kg	0.1	ND
Chrysene(CHR)	218-01-9	0.5	mg/kg	0.1	ND
Benzo(b)Fluoranthene(BbF)	205-99-2	0.5	mg/kg	0.1	ND
Benzo(j)fluoranthene(BjF)	205-82-3	0.5	mg/kg	0.1	ND
Benzo(k)Fluoranthene(BkF)	207-08-9	0.5	mg/kg	0.1	ND
Benzo(e)pyrene(BeP)	192-97-2	0.5	mg/kg	0.1	ND



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Test Item(s)	CAS No.	Limit	Unit(s)	MDL	A15+A16
Benzo(a)pyrene(BaP)	50-32-8	0.5	mg/kg	0.1	ND
Dibenzo(a,h)Anthracene(DBA)	53-70-3	0.5	mg/kg	0.1	ND
Conclusion					Pass

3. Entry 52 of Regulation (EU) 2015/326 amending Annex XVII of REACH Regulation (EC) No 1907/2006 - Phthalate

Test Method: With reference to EN 14372: 2004, analysis was performed by GC-MS.

Test Item(s)	CAS No.	Limit	Unit(s)	MDL	A16	A17	A4+A5+A6
Diisononyl Phthalate (DINP)	28553-12-0 /68515-48-0	-	%	0.010	ND	ND	ND
Di-n-Octyl Phthalate(DNOP)	117-84-0	-	%	0.003	ND	ND	ND
Diisodecyl Phthalate (DIDP)	26761-40-0 /68515-49-1	-	%	0.010	ND	ND	ND
Sum of (DINP,DNOP,DIDP)	-	0.1	%	-	ND	ND	ND
Conclusion					Pass	Pass	Pass

Test Item(s)	CAS No.	Limit	Unit(s)	MDL	A12+A13+A14	A7+A8+A15
Diisononyl Phthalate (DINP)	28553-12-0 /68515-48-0	-	%	0.010	ND	ND
Di-n-Octyl Phthalate(DNOP)	117-84-0	-	%	0.003	ND	ND
Diisodecyl Phthalate (DIDP)	26761-40-0 /68515-49-1	-	%	0.010	ND	ND
Sum of (DINP,DNOP,DIDP)	-	0.1	%	-	ND	ND
Conclusion					Pass	Pass

Notes:

DINP, DNOP, DIDP Reference information: Entry 52 of Regulation (EU) 2015/326 amending Annex XVII of REACH Regulation (EC) No 1907/2006.

- Shall not be used as substances or in mixtures, in concentrations greater than 0.1 % by weight of the plasticised material, in toys and childcare articles which can be placed in the mouth by children.
- Such toys and childcare articles containing these phthalates in a concentration greater than 0.1 % by



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weight of the plasticised material shall not be placed on the market.
Please refer to Regulation (EU) 2015/326 to get more detail information.

4. Entry 63 of Regulation (EU) 2015/628 amending Annex XVII of REACH Regulation (EC) No 1907/2006 - Total Lead(coating)

Test Method: With reference to CPSC-CH-E1003-09.1, analysis was performed by AAS/ICP-OES.

Test Item(s)	Limit	Unit(s)	MDL	A5+A14+A17	A6+A7+A8	A4+A12+A13
Total Lead (Pb)	500	mg/kg	20	25	ND	ND
Conclusion				Pass	Pass	Pass

Test Item(s)	Limit	Unit(s)	MDL	A15+A16
Total Lead (Pb)	500	mg/kg	20	ND
Conclusion				Pass

Notes:

When the result is equal to or greater than 500 mg/kg, the limit shall not apply where it can be demonstrated that the rate of Lead release from such an article or any such accessible part of an article, whether coated or uncoated, does not exceed 0.05 µg/cm²/h (equivalent to 0.05 µg/g/h), further migration test is requested per EN 16711-3: 2019 for compliance.

5. Entry 51 of Regulation (EU) 2018/2005 amending Annex XVII of REACH Regulation (EC) No 1907/2006 - Phthalate

Test Method: With reference to EN 14372:2004, analysis was performed by GC-MS.

Test Item(s)	CAS No.	Limit	Unit(s)	MDL	A16	A17	A4+A5+A6
Dibutyl Phthalate(DBP)	84-74-2	0.1	%	0.003	ND	ND	ND
Benzyl Butyl Phthalate(BBP)	85-68-7	0.1	%	0.003	ND	ND	ND
Bis-(2-ethylhexyl) Phthalate(DEHP)	117-81-7	0.1	%	0.003	ND	ND	ND
Diisobutyl Phthalate(DIBP)	84-69-5	0.1	%	0.003	ND	ND	ND
Sum of (DBP,BBP,DEHP, DIBP)	-	0.1	%	-	ND	ND	ND
Conclusion					Pass	Pass	Pass



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Test Item(s)	CAS No.	Limit	Unit(s)	MDL	A12+A13+A14	A7+A8+A15
Dibutyl Phthalate(DBP)	84-74-2	0.1	%	0.003	ND	ND
Benzyl Butyl Phthalate(BBP)	85-68-7	0.1	%	0.003	ND	ND
Bis-(2-ethylhexyl) Phthalate(DEHP)	117-81-7	0.1	%	0.003	ND	ND
Diisobutyl Phthalate(DIBP)	84-69-5	0.1	%	0.003	ND	ND
Sum of (DBP,BBP,DEHP, DIBP)	-	0.1	%	-	ND	ND
Conclusion					Pass	Pass

Notes:

DBP,BBP,DEHP, DIBP Reference information: Entry 51 of Regulation (EU) 2018/2005 amending Annex XVII of REACH Regulation (EC) No 1907/2006:

i) Shall not be used as substances or in mixtures, individually or in any combination of DBP, BBP, DEHP & DIBP, in concentrations equal to or greater than 0.1 % by weight of the plasticised material, in toys and childcare articles.

ii) Shall not be placed on the market in toys or childcare articles, individually or in any combination of DBP, BBP, DEHP, in concentrations equal to or greater than 0.1 % by weight of the plasticised material.

In addition, DIBP shall not be placed on the market after 7 July 2020 in toys or childcare articles, individually or in any combination of DBP, BBP, DEHP & DIBP, in concentrations equal to or greater than 0.1 % by weight of the plasticised material.

iii) shall not be placed on the market after 7 July 2020 in articles, individually or in any combination of DBP, BBP, DEHP & DIBP, in concentrations equal to or greater than 0.1 % by weight of the plasticised material in the articles.

Please refer to Regulation (EU) 2018/2005 to get more detail information.

6. EN 71-3: 2019+ A2:2024 - Migration of certain elements (Category III:for scrapped-off toy material)

Test Method: With reference to EN 71-3:2019+ A2:2024, analysis was performed by ICP-OES, IC-UV or LC-ICP-MS.

Test Item(s)	Limit	Unit(s)	MDL	A4	A5	A6
Mass of trace amount	-	mg	-	45.1	15.1	/
Soluble Lead(Pb)	23	mg/kg	5	ND	ND	ND
Soluble Antimony(Sb)	560	mg/kg	10	ND	ND	ND
Soluble Arsenic(As)	47	mg/kg	10	ND	ND	ND
Soluble Barium(Ba)	18750	mg/kg	50	ND	ND	ND
Soluble Cadmium(Cd)	17	mg/kg	5	ND	ND	ND
Soluble Chromium(III)(CrIII)	460	mg/kg	5	ND	ND	ND



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Test Item(s)	Limit	Unit(s)	MDL	A4	A5	A6
Soluble Chromium(VI)(Cr VI)	0.053	mg/kg	0.025	ND	ND	ND
Soluble Mercury(Hg)	94	mg/kg	10	ND	ND	ND
Soluble Selenium(Se)	460	mg/kg	10	ND	ND	ND
Soluble Boron(B)	15000	mg/kg	50	ND	ND	ND
Soluble Cobalt(Co)	130	mg/kg	10	ND	ND	ND
Soluble Manganese(Mn)	15000	mg/kg	50	ND	ND	ND
Soluble Strontium(Sr)	56000	mg/kg	50	ND	ND	ND
Soluble Zinc(Zn)	46000	mg/kg	50	100	ND	62
Soluble Copper(Cu)	7700	mg/kg	50	ND	ND	ND
Soluble Aluminum(Al)	28130	mg/kg	50	ND	ND	211
Soluble Nickel(Ni)	930	mg/kg	10	ND	ND	ND
Soluble Tin(Sn)	180000	mg/kg	3	ND	ND	ND
Soluble Organic Tin*	12	mg/kg	-	ND	ND	ND
Conclusion				Pass	Pass	Pass

Test Item(s)	Limit	Unit(s)	MDL	A7	A8	A12
Mass of trace amount	-	mg	-	44.2	56.8	/
Soluble Lead(Pb)	23	mg/kg	5	ND	ND	ND
Soluble Antimony(Sb)	560	mg/kg	10	ND	ND	ND
Soluble Arsenic(As)	47	mg/kg	10	ND	ND	ND
Soluble Barium(Ba)	18750	mg/kg	50	ND	ND	ND
Soluble Cadmium(Cd)	17	mg/kg	5	ND	ND	ND
Soluble Chromium(III)(CrIII)	460	mg/kg	5	ND	ND	ND
Soluble Chromium(VI)(Cr VI)	0.053	mg/kg	0.025	ND	ND	ND
Soluble Mercury(Hg)	94	mg/kg	10	ND	ND	ND
Soluble Selenium(Se)	460	mg/kg	10	ND	ND	ND
Soluble Boron(B)	15000	mg/kg	50	ND	ND	ND
Soluble Cobalt(Co)	130	mg/kg	10	ND	ND	ND
Soluble Manganese(Mn)	15000	mg/kg	50	ND	ND	ND
Soluble Strontium(Sr)	56000	mg/kg	50	ND	ND	ND
Soluble Zinc(Zn)	46000	mg/kg	50	ND	82	ND
Soluble Copper(Cu)	7700	mg/kg	50	ND	ND	ND
Soluble Aluminum(Al)	28130	mg/kg	50	77	105	ND
Soluble Nickel(Ni)	930	mg/kg	10	ND	ND	ND
Soluble Tin(Sn)	180000	mg/kg	3	ND	ND	ND
Soluble Organic Tin*	12	mg/kg	-	ND	ND	ND
Conclusion				Pass	Pass	Pass

Test Item(s)	Limit	Unit(s)	MDL	A13	A14	A15
Mass of trace amount	-	mg	-	/	/	/
Soluble Lead(Pb)	23	mg/kg	5	ND	ND	ND
Soluble Antimony(Sb)	560	mg/kg	10	ND	ND	ND
Soluble Arsenic(As)	47	mg/kg	10	ND	ND	ND



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Test Item(s)	Limit	Unit(s)	MDL	A13	A14	A15
Soluble Barium(Ba)	18750	mg/kg	50	ND	ND	ND
Soluble Cadmium(Cd)	17	mg/kg	5	ND	ND	ND
Soluble Chromium(III)(CrIII)	460	mg/kg	5	ND	ND	ND
Soluble Chromium(VI)(Cr VI)	0.053	mg/kg	0.025	ND	ND	ND
Soluble Mercury(Hg)	94	mg/kg	10	ND	ND	ND
Soluble Selenium(Se)	460	mg/kg	10	ND	ND	ND
Soluble Boron(B)	15000	mg/kg	50	ND	ND	ND
Soluble Cobalt(Co)	130	mg/kg	10	ND	ND	ND
Soluble Manganese(Mn)	15000	mg/kg	50	ND	ND	ND
Soluble Strontium(Sr)	56000	mg/kg	50	ND	ND	ND
Soluble Zinc(Zn)	46000	mg/kg	50	ND	ND	ND
Soluble Copper(Cu)	7700	mg/kg	50	ND	ND	ND
Soluble Aluminum(Al)	28130	mg/kg	50	ND	ND	ND
Soluble Nickel(Ni)	930	mg/kg	10	ND	ND	ND
Soluble Tin(Sn)	180000	mg/kg	3	ND	ND	ND
Soluble Organic Tin*	12	mg/kg	-	ND	ND	ND
Conclusion				Pass	Pass	Pass

Test Item(s)	Limit	Unit(s)	MDL	A16	A17	A18
Mass of trace amount	-	mg	-	/	/	/
Soluble Lead(Pb)	23	mg/kg	5	ND	ND	ND
Soluble Antimony(Sb)	560	mg/kg	10	ND	ND	ND
Soluble Arsenic(As)	47	mg/kg	10	ND	ND	ND
Soluble Barium(Ba)	18750	mg/kg	50	ND	ND	ND
Soluble Cadmium(Cd)	17	mg/kg	5	ND	ND	ND
Soluble Chromium(III)(CrIII)	460	mg/kg	5	ND	ND	ND
Soluble Chromium(VI)(Cr VI)	0.053	mg/kg	0.025	ND	ND	ND
Soluble Mercury(Hg)	94	mg/kg	10	ND	ND	ND
Soluble Selenium(Se)	460	mg/kg	10	ND	ND	ND
Soluble Boron(B)	15000	mg/kg	50	ND	ND	ND
Soluble Cobalt(Co)	130	mg/kg	10	ND	ND	ND
Soluble Manganese(Mn)	15000	mg/kg	50	ND	ND	ND
Soluble Strontium(Sr)	56000	mg/kg	50	ND	ND	ND
Soluble Zinc(Zn)	46000	mg/kg	50	ND	ND	ND
Soluble Copper(Cu)	7700	mg/kg	50	ND	ND	ND
Soluble Aluminum(Al)	28130	mg/kg	50	ND	ND	ND
Soluble Nickel(Ni)	930	mg/kg	10	ND	ND	ND
Soluble Tin(Sn)	180000	mg/kg	3	ND	ND	ND
Soluble Organic Tin*	12	mg/kg	-	ND	ND	ND
Conclusion				Pass	Pass	Pass

Notes:



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(1) According to Chapter of 10.1.2 of EN 71-3:2019+ A2:2024, Chromium (III) is calculated by the following formula:

Soluble Chromium (III) = Soluble Total Chromium - Soluble Chromium (VI)

(2) *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+ A2:2024.

(3) / =Not Applicable

7. **BS EN71-3: 2019+ A2:2024 - Migration of certain elements (Category III:for scrapped-off toy material)**

Test Method: With reference to BS EN 71-3:2019+ A2:2024, analysis was performed by ICP-OES, IC-UV or LC-ICP-MS.

Test Item(s)	Limit	Unit(s)	MDL	A4	A5	A6
Mass of trace amount	-	mg	-	45.1	15.1	/
Soluble Lead(Pb)	23	mg/kg	5	ND	ND	ND
Soluble Antimony(Sb)	560	mg/kg	10	ND	ND	ND
Soluble Arsenic(As)	47	mg/kg	10	ND	ND	ND
Soluble Barium(Ba)	18750	mg/kg	50	ND	ND	ND
Soluble Cadmium(Cd)	17	mg/kg	5	ND	ND	ND
Soluble Chromium(III)(CrIII)	460	mg/kg	5	ND	ND	ND
Soluble Chromium(VI)(Cr VI)	0.053	mg/kg	0.025	ND	ND	ND
Soluble Mercury(Hg)	94	mg/kg	10	ND	ND	ND
Soluble Selenium(Se)	460	mg/kg	10	ND	ND	ND
Soluble Boron(B)	15000	mg/kg	50	ND	ND	ND
Soluble Cobalt(Co)	130	mg/kg	10	ND	ND	ND
Soluble Manganese(Mn)	15000	mg/kg	50	ND	ND	ND
Soluble Strontium(Sr)	56000	mg/kg	50	ND	ND	ND
Soluble Zinc(Zn)	46000	mg/kg	50	100	ND	62
Soluble Copper(Cu)	7700	mg/kg	50	ND	ND	ND
Soluble Aluminum(Al)	28130	mg/kg	50	ND	ND	211
Soluble Nickel(Ni)	930	mg/kg	10	ND	ND	ND
Soluble Tin(Sn)	180000	mg/kg	3	ND	ND	ND
Soluble Organic Tin*	12	mg/kg	-	ND	ND	ND
Conclusion				Pass	Pass	Pass

Test Item(s)	Limit	Unit(s)	MDL	A7	A8	A12
Mass of trace amount	-	mg	-	44.2	56.8	/
Soluble Lead(Pb)	23	mg/kg	5	ND	ND	ND
Soluble Antimony(Sb)	560	mg/kg	10	ND	ND	ND
Soluble Arsenic(As)	47	mg/kg	10	ND	ND	ND
Soluble Barium(Ba)	18750	mg/kg	50	ND	ND	ND
Soluble Cadmium(Cd)	17	mg/kg	5	ND	ND	ND
Soluble Chromium(III)(CrIII)	460	mg/kg	5	ND	ND	ND
Soluble Chromium(VI)(Cr VI)	0.053	mg/kg	0.025	ND	ND	ND



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Test Item(s)	Limit	Unit(s)	MDL	A7	A8	A12
Soluble Mercury(Hg)	94	mg/kg	10	ND	ND	ND
Soluble Selenium(Se)	460	mg/kg	10	ND	ND	ND
Soluble Boron(B)	15000	mg/kg	50	ND	ND	ND
Soluble Cobalt(Co)	130	mg/kg	10	ND	ND	ND
Soluble Manganese(Mn)	15000	mg/kg	50	ND	ND	ND
Soluble Strontium(Sr)	56000	mg/kg	50	ND	ND	ND
Soluble Zinc(Zn)	46000	mg/kg	50	ND	82	ND
Soluble Copper(Cu)	7700	mg/kg	50	ND	ND	ND
Soluble Aluminum(Al)	28130	mg/kg	50	77	105	ND
Soluble Nickel(Ni)	930	mg/kg	10	ND	ND	ND
Soluble Tin(Sn)	180000	mg/kg	3	ND	ND	ND
Soluble Organic Tin*	12	mg/kg	-	ND	ND	ND
Conclusion				Pass	Pass	Pass

Test Item(s)	Limit	Unit(s)	MDL	A13	A14	A15
Mass of trace amount	-	mg	-	/	/	/
Soluble Lead(Pb)	23	mg/kg	5	ND	ND	ND
Soluble Antimony(Sb)	560	mg/kg	10	ND	ND	ND
Soluble Arsenic(As)	47	mg/kg	10	ND	ND	ND
Soluble Barium(Ba)	18750	mg/kg	50	ND	ND	ND
Soluble Cadmium(Cd)	17	mg/kg	5	ND	ND	ND
Soluble Chromium(III)(CrIII)	460	mg/kg	5	ND	ND	ND
Soluble Chromium(VI)(Cr VI)	0.053	mg/kg	0.025	ND	ND	ND
Soluble Mercury(Hg)	94	mg/kg	10	ND	ND	ND
Soluble Selenium(Se)	460	mg/kg	10	ND	ND	ND
Soluble Boron(B)	15000	mg/kg	50	ND	ND	ND
Soluble Cobalt(Co)	130	mg/kg	10	ND	ND	ND
Soluble Manganese(Mn)	15000	mg/kg	50	ND	ND	ND
Soluble Strontium(Sr)	56000	mg/kg	50	ND	ND	ND
Soluble Zinc(Zn)	46000	mg/kg	50	ND	ND	ND
Soluble Copper(Cu)	7700	mg/kg	50	ND	ND	ND
Soluble Aluminum(Al)	28130	mg/kg	50	ND	ND	ND
Soluble Nickel(Ni)	930	mg/kg	10	ND	ND	ND
Soluble Tin(Sn)	180000	mg/kg	3	ND	ND	ND
Soluble Organic Tin*	12	mg/kg	-	ND	ND	ND
Conclusion				Pass	Pass	Pass

Test Item(s)	Limit	Unit(s)	MDL	A16	A17	A18
Mass of trace amount	-	mg	-	/	/	/
Soluble Lead(Pb)	23	mg/kg	5	ND	ND	ND
Soluble Antimony(Sb)	560	mg/kg	10	ND	ND	ND
Soluble Arsenic(As)	47	mg/kg	10	ND	ND	ND
Soluble Barium(Ba)	18750	mg/kg	50	ND	ND	ND



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Test Item(s)	Limit	Unit(s)	MDL	A16	A17	A18
Soluble Cadmium(Cd)	17	mg/kg	5	ND	ND	ND
Soluble Chromium(III)(CrIII)	460	mg/kg	5	ND	ND	ND
Soluble Chromium(VI)(Cr VI)	0.053	mg/kg	0.025	ND	ND	ND
Soluble Mercury(Hg)	94	mg/kg	10	ND	ND	ND
Soluble Selenium(Se)	460	mg/kg	10	ND	ND	ND
Soluble Boron(B)	15000	mg/kg	50	ND	ND	ND
Soluble Cobalt(Co)	130	mg/kg	10	ND	ND	ND
Soluble Manganese(Mn)	15000	mg/kg	50	ND	ND	ND
Soluble Strontium(Sr)	56000	mg/kg	50	ND	ND	ND
Soluble Zinc(Zn)	46000	mg/kg	50	ND	ND	ND
Soluble Copper(Cu)	7700	mg/kg	50	ND	ND	ND
Soluble Aluminum(Al)	28130	mg/kg	50	ND	ND	ND
Soluble Nickel(Ni)	930	mg/kg	10	ND	ND	ND
Soluble Tin(Sn)	180000	mg/kg	3	ND	ND	ND
Soluble Organic Tin*	12	mg/kg	-	ND	ND	ND
Conclusion				Pass	Pass	Pass

Notes:

(1) According to Chapter of 10.1.2 of BS EN 71-3:2019+ A2:2024, Chromium (III) is calculated by the following formula:

Soluble Chromium (III) = Soluble Total Chromium - Soluble Chromium (VI)

(2) *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 BS EN 71-3:2019+ A2:2024.

(3) /=Not Applicable

8. ASTM F963-23, Clause 4.3.5.1 – Total Lead in Paint and Similar Surface-coating Materials

Test Method: With reference to CPSC-CH-E1003-09.1, analysis was performed by AAS/ICP-OES.

Test Item(s)	Limit	Unit(s)	MDL	A5+A14+ A17	A6+A7+A 8	A4+A12+ A13
Total Lead (Pb)	90	mg/kg	20	25	ND	ND
Conclusion				Pass	Pass	Pass

Test Item(s)	Limit	Unit(s)	MDL	A15+A16
Total Lead (Pb)	90	mg/kg	20	ND
Conclusion				Pass

9. ASTM F963-23, Clause 4.3.5.1 – Soluble Heavy Metal in Paint and Similar Surface-coating Materials

Test Method: With reference to ASTM F 963-23 (Clause 8.3), analysis was performed by ICP-OES.



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Test Item(s)	Limit	Unit(s)	MDL	A4	A5	A6
Soluble Mercury(Hg)	60	mg/kg	5	ND	ND	ND
Soluble Chromium(Cr)	60	mg/kg	5	ND	ND	ND
Soluble Cadmium(Cd)	75	mg/kg	5	ND	ND	ND
Soluble Barium(Ba)	1000	mg/kg	10	ND	ND	13
Soluble Arsenic(As)	25	mg/kg	2.5	ND	ND	ND
Soluble Lead(Pb)	90	mg/kg	5	ND	ND	ND
Soluble Antimony(Sb)	60	mg/kg	5	ND	ND	ND
Soluble Selenium(Se)	500	mg/kg	10	ND	ND	ND
Conclusion				Pass	Pass	Pass

Test Item(s)	Limit	Unit(s)	MDL	A7	A8	A12
Soluble Mercury(Hg)	60	mg/kg	5	ND	ND	ND
Soluble Chromium(Cr)	60	mg/kg	5	ND	ND	ND
Soluble Cadmium(Cd)	75	mg/kg	5	ND	ND	ND
Soluble Barium(Ba)	1000	mg/kg	10	ND	13	ND
Soluble Arsenic(As)	25	mg/kg	2.5	ND	ND	ND
Soluble Lead(Pb)	90	mg/kg	5	ND	ND	ND
Soluble Antimony(Sb)	60	mg/kg	5	ND	ND	ND
Soluble Selenium(Se)	500	mg/kg	10	ND	ND	ND
Conclusion				Pass	Pass	Pass

Test Item(s)	Limit	Unit(s)	MDL	A13	A14	A15
Soluble Mercury(Hg)	60	mg/kg	5	ND	ND	ND
Soluble Chromium(Cr)	60	mg/kg	5	ND	ND	ND
Soluble Cadmium(Cd)	75	mg/kg	5	ND	ND	ND
Soluble Barium(Ba)	1000	mg/kg	10	ND	ND	ND
Soluble Arsenic(As)	25	mg/kg	2.5	ND	ND	ND
Soluble Lead(Pb)	90	mg/kg	5	ND	ND	ND
Soluble Antimony(Sb)	60	mg/kg	5	ND	ND	ND
Soluble Selenium(Se)	500	mg/kg	10	ND	ND	ND
Conclusion				Pass	Pass	Pass

Test Item(s)	Limit	Unit(s)	MDL	A16	A17
Soluble Mercury(Hg)	60	mg/kg	5	ND	ND
Soluble Chromium(Cr)	60	mg/kg	5	ND	ND
Soluble Cadmium(Cd)	75	mg/kg	5	ND	ND
Soluble Barium(Ba)	1000	mg/kg	10	ND	ND
Soluble Arsenic(As)	25	mg/kg	2.5	ND	ND
Soluble Lead(Pb)	90	mg/kg	5	ND	ND
Soluble Antimony(Sb)	60	mg/kg	5	ND	ND
Soluble Selenium(Se)	500	mg/kg	10	ND	ND
Conclusion				Pass	Pass



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Notes:

(1) Results shown are of the adjusted analytical results.

10. ASTM F963-23, Clause 4.3.8 – Phthalates

Test Method: With reference to CPSC-CH-C1001-09.4, analysis was performed by GC-MS.

Test Item(s)	CAS No.	Limit	Unit(s)	MDL	A6	A7	A8
Di-butyl Phthalate (DBP)	84-74-2	0.1	%	0.005	ND	0.008	ND
Di-2-Ethyl Hexyl Phthalate (DEHP)	117-81-7	0.1	%	0.005	ND	ND	ND
Benzyl Butyl Phthalate (BBP)	85-68-7	0.1	%	0.005	ND	ND	ND
Diisononyl Phthalate (DINP)	28553-12-0 / 68515-48-0	0.1	%	0.005	ND	ND	ND
Diisobutyl Phthalate (DIBP)	84-69-5	0.1	%	0.005	ND	ND	ND
Dipentyl Phthalate (DPENP)	131-18-0	0.1	%	0.005	ND	ND	ND
Dihexyl Phthalate (DHEXP/ DnHP)	84-75-3	0.1	%	0.005	ND	ND	ND
Dicyclohexyl Phthalate (DCHP)	84-61-7	0.1	%	0.005	ND	ND	ND
Conclusion					Pass	Pass	Pass

Test Item(s)	CAS No.	Limit	Unit(s)	MDL	A4+A5	A12+A13+A14	A15+A16+A17
Di-butyl Phthalate (DBP)	84-74-2	0.1	%	0.005	ND	ND	ND
Di-2-Ethyl Hexyl Phthalate (DEHP)	117-81-7	0.1	%	0.005	ND	ND	ND
Benzyl Butyl Phthalate (BBP)	85-68-7	0.1	%	0.005	ND	ND	ND
Diisononyl Phthalate (DINP)	28553-12-0 / 68515-48-0	0.1	%	0.005	ND	ND	ND
Diisobutyl Phthalate (DIBP)	84-69-5	0.1	%	0.005	ND	ND	ND
Dipentyl Phthalate (DPENP)	131-18-0	0.1	%	0.005	ND	ND	ND
Dihexyl Phthalate (DHEXP/ DnHP)	84-75-3	0.1	%	0.005	ND	ND	ND



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Test Item(s)	CAS No.	Limit	Unit(s)	MDL	A4+A5	A12+A13 +A14	A15+A16 +A17
Dicyclohexyl Phthalate (DCHP)	84-61-7	0.1	%	0.005	ND	ND	ND
Conclusion					Pass	Pass	Pass

11. Part 1303, Title 16, Code of Federal Regulations, Chapter II - Consumer Products Safety Commission of U.S.A.-Lead in paint/similar surface coating material

Test Method: With reference to CPSC-CH-E1003-09.1, analysis was performed by AAS/ICP-OES.

Test Item(s)	Limit	Unit(s)	MDL	A6	A7	A8
Lead(Pb)	0.009	%	0.0020	ND	ND	ND
Conclusion				Pass	Pass	Pass

Test Item(s)	Limit	Unit(s)	MDL	A4+A5	A12+A13 +A14	A15+A16 +A17
Lead(Pb)	0.009	%	0.0020	ND	ND	ND
Conclusion				Pass	Pass	Pass

12. CPSIA section 101(f) - Lead in paint/similar surface coating material

Test Method: With reference to CPSC-CH-E1003-09.1, analysis was performed by AAS/ICP-OES.

Test Item(s)	Limit	Unit(s)	MDL	A6	A7	A8
Lead (Pb)	90	mg/kg	20	ND	ND	ND
Conclusion				Pass	Pass	Pass

Test Item(s)	Limit	Unit(s)	MDL	A4+A5	A12+A13 +A14	A15+A16 +A17
Lead (Pb)	90	mg/kg	20	ND	ND	ND
Conclusion				Pass	Pass	Pass

13. CPSIA section 101(a)(2) - Lead in accessible substrate materials

Test Method: With reference to CPSC-CH-E1002-08.3, analysis was performed by AAS/ICP-OES.

Test Item(s)	Limit	Unit(s)	MDL	A18
Lead (Pb)	100	mg/kg	20	ND
Conclusion				Pass

14. CONSUMER PRODUCT SAFETY COMMISSION-16 CFR Part 1307, Final Rule, amending CPSIA section 108, Prohibition on Sale of Certain Products Containing Specified Phthalates

Test Method: With reference to CPSC-CH-C1001-09.4, analysis was performed by GC-MS.



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Test Item(s)	CAS No.	Limit	Unit(s)	MDL	A6	A7	A8
Benzyl Butyl Phthalate (BBP)	85-68-7	1000	mg/kg	50	ND	ND	ND
Dibutyl Phthalate (DBP)	84-74-2	1000	mg/kg	50	ND	82	ND
Dicyclohexyl Phthalates (DCHP)	84-61-7	1000	mg/kg	50	ND	ND	ND
Di(2-ethyl hexyl) Phthalate (DEHP)	117-81-7	1000	mg/kg	50	ND	ND	ND
Di-n-hexyl Phthalates (DHEXP/ DnHP)	84-75-3	1000	mg/kg	50	ND	ND	ND
Diisobutyl Phthalates (DIBP)	84-69-5	1000	mg/kg	50	ND	ND	ND
Diisononyl Phthalate (DINP)	28553-12-0 /68515-48-0	1000	mg/kg	50	ND	ND	ND
Dipentyl Phthalates (DPENP)	131-18-0	1000	mg/kg	50	ND	ND	ND
Conclusion					Pass	Pass	Pass

Test Item(s)	CAS No.	Limit	Unit(s)	MDL	A4+A5	A12+A13 +A14	A15+A16 +A17
Benzyl Butyl Phthalate (BBP)	85-68-7	1000	mg/kg	50	ND	ND	ND
Dibutyl Phthalate (DBP)	84-74-2	1000	mg/kg	50	ND	ND	ND
Dicyclohexyl Phthalates (DCHP)	84-61-7	1000	mg/kg	50	ND	ND	ND
Di(2-ethyl hexyl) Phthalate (DEHP)	117-81-7	1000	mg/kg	50	ND	ND	ND
Di-n-hexyl Phthalates (DHEXP/ DnHP)	84-75-3	1000	mg/kg	50	ND	ND	ND
Diisobutyl Phthalates (DIBP)	84-69-5	1000	mg/kg	50	ND	ND	ND
Diisononyl Phthalate (DINP)	28553-12-0 /68515-48-0	1000	mg/kg	50	ND	ND	ND
Dipentyl Phthalates (DPENP)	131-18-0	1000	mg/kg	50	ND	ND	ND
Conclusion					Pass	Pass	Pass



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15. Canada Consumer Product Safety Act (S.C. 2010, c. 21), Consumer Products Containing Lead (Contact with Mouth) Regulations SOR/2018-83 - Total Lead (Coating)

Test Method: With reference to Health Canada's Product Safety Laboratory test method C-02.2.2:2020, analysis was performed by AAS/ICP-OES.

Test Item(s)	Limit	Unit(s)	MDL	A4+A5+A6	A12+A13+A14	A16+A17
Lead(Pb)	0.009	%	0.0020	ND	ND	ND
Conclusion				Pass	Pass	Pass

Test Item(s)	Limit	Unit(s)	MDL	A7+A8+A15
Lead(Pb)	0.009	%	0.0020	ND
Conclusion				Pass

16. Canada Consumer Product Safety Act (S.C. 2010, c. 21), Phthalates Regulations (SOR/2016-188) - Phthalates

Test Method: With reference to Health Canada, Product Safety Laboratory, Book 5, Part B, Method C34.3:2023, analysis was performed by GC-MS.

Test Item(s)	CAS No.	Limit	Unit(s)	MDL	A4+A5+A6	A12+A13+A14	A16+A17
Dibutyl Phthalate(DBP)	84-74-2	1000	mg/kg	30	ND	ND	ND
Bis-(2-ethylhexyl) Phthalate(DEHP)	117-81-7	1000	mg/kg	30	ND	ND	ND
Diisononyl Phthalate (DINP)	28553-12-0 /68515-48-0	1000	mg/kg	100	ND	ND	ND
Benzyl Butyl Phthalate(BBP)	85-68-7	1000	mg/kg	30	ND	ND	ND
Di-n-Octyl Phthalate(DNOP)	117-84-0	1000	mg/kg	30	ND	ND	ND
Diisodecyl Phthalate (DIDP)	26761-40-0 /68515-49-1	1000	mg/kg	100	ND	ND	ND
Conclusion					Pass	Pass	Pass

Test Item(s)	CAS No.	Limit	Unit(s)	MDL	A7+A8+A15
Dibutyl Phthalate(DBP)	84-74-2	1000	mg/kg	30	ND
Bis-(2-ethylhexyl) Phthalate(DEHP)	117-81-7	1000	mg/kg	30	ND



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Test Item(s)	CAS No.	Limit	Unit(s)	MDL	A7+A8+A15
Diisononyl Phthalate (DINP)	28553-12-0 /68515-48-0	1000	mg/kg	100	ND
Benzyl Butyl Phthalate(BBP)	85-68-7	1000	mg/kg	30	ND
Di-n-Octyl Phthalate(DNOP)	117-84-0	1000	mg/kg	30	ND
Diisodecyl Phthalate (DIDP)	26761-40-0 /68515-49-1	1000	mg/kg	100	ND
Conclusion					Pass

17. Canada Consumer Product Safety Act(S.C. 2010, c. 21),Surface Coating Materials Regulations SOR/2016-193 and its amendment SOR/2022-122- Total Lead in surface coating materials

Test Method: With reference to Health Canada's Product Safety Laboratory test method C-02.2.2:2020, analysis was performed by ICP-OES/ICP-MS

Test Item(s)	Limit	Unit(s)	MDL	A4+A5+A6	A12+A13+A14	A16+A17
Total Lead (Pb)	90	mg/kg	20	ND	ND	ND
Conclusion				Pass	Pass	Pass

Test Item(s)	Limit	Unit(s)	MDL	A7+A8+A15
Total Lead (Pb)	90	mg/kg	20	ND
Conclusion				Pass

18. Canada Consumer Product Safety Act (S.C. 2010, c. 21), Toys Regulations SOR/2011-17 and its amendment SOR/2022-122 (section 23) - Soluble Heavy Metal in surface coating

Test Method: With reference to ASTM F 963-23 (Clause 8.3), analysis was performed by ICP-OES.

Test Item(s)	Limit	Unit(s)	MDL	A4	A5	A6
Soluble Antimony(Sb)	0.1	%	0.0005	ND	ND	ND
Soluble Arsenic(As)	0.1	%	0.0005	ND	ND	ND
Soluble Barium(Ba)	0.1	%	0.0010	ND	ND	0.0013
Soluble Cadmium(Cd)	0.1	%	0.0005	ND	ND	ND
Soluble Selenium(Se)	0.1	%	0.0010	ND	ND	ND
Conclusion				Pass	Pass	Pass

Test Item(s)	Limit	Unit(s)	MDL	A7	A8	A12
Soluble Antimony(Sb)	0.1	%	0.0005	ND	ND	ND
Soluble Arsenic(As)	0.1	%	0.0005	ND	ND	ND
Soluble Barium(Ba)	0.1	%	0.0010	ND	0.0013	ND



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Test Item(s)	Limit	Unit(s)	MDL	A7	A8	A12
Soluble Cadmium(Cd)	0.1	%	0.0005	ND	ND	ND
Soluble Selenium(Se)	0.1	%	0.0010	ND	ND	ND
Conclusion				Pass	Pass	Pass

Test Item(s)	Limit	Unit(s)	MDL	A13	A14	A15
Soluble Antimony(Sb)	0.1	%	0.0005	ND	ND	ND
Soluble Arsenic(As)	0.1	%	0.0005	ND	ND	ND
Soluble Barium(Ba)	0.1	%	0.0010	ND	ND	ND
Soluble Cadmium(Cd)	0.1	%	0.0005	ND	ND	ND
Soluble Selenium(Se)	0.1	%	0.0010	ND	ND	ND
Conclusion				Pass	Pass	Pass

Test Item(s)	Limit	Unit(s)	MDL	A16	A17
Soluble Antimony(Sb)	0.1	%	0.0005	ND	ND
Soluble Arsenic(As)	0.1	%	0.0005	ND	ND
Soluble Barium(Ba)	0.1	%	0.0010	ND	ND
Soluble Cadmium(Cd)	0.1	%	0.0005	ND	ND
Soluble Selenium(Se)	0.1	%	0.0010	ND	ND
Conclusion				Pass	Pass

Notes:

(1) Results shown are of the adjusted analytical results.

19. Canada Consumer Product Safety Act (S.C. 2010, c. 21), Toys Regulations SOR/2011-17 and its amendment SOR/2022-122 (section 23) - Total Lead in surface coating

Test Method: With reference to Health Canada's Product Safety Laboratory test method C-02.2.2:2020, analysis was performed by ICP-OES/ICP-MS.

Test Item(s)	Limit	Unit(s)	MDL	A5+A14+A17	A6+A7+A8	A4+A12+A13
Total Lead (Pb)	0.0090	%	0.0020	0.0025	ND	ND
Conclusion				Pass	Pass	Pass

Test Item(s)	Limit	Unit(s)	MDL	A15+A16
Total Lead (Pb)	0.0090	%	0.0020	ND
Conclusion				Pass

20. Canada Consumer Product Safety Act (S.C. 2010, c. 21), Toys Regulations SOR/2011-17 and its amendment SOR/2022-122 (section 23) - Total Mercury in surface coating

Test Method: With reference to Health Canada's Product Safety Laboratory test method C-02.2.2:2020, analysis was performed by ICP-OES/ICP-MS



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Test Item(s)	Limit	Unit(s)	MDL	A5+A14+A17	A6+A7+A8	A4+A12+A13
Mercury(Hg)	0.0010	%	0.0001	ND	ND	ND
Conclusion				Pass	Pass	Pass

Test Item(s)	Limit	Unit(s)	MDL	A15+A16
Mercury(Hg)	0.0010	%	0.0001	ND
Conclusion				Pass

Remark:

(1) For method of CPSC-CH-E1003-09.1: Composite test has been performed and the result is calculated using the minimum sample weight.

(2) For others: Composite test has been performed as per client's request.

(3) Result shown is of the total weight of dried sample.

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Statements of conformity are reported as:

Passed - The measured values were observed in tolerance at the points tested.

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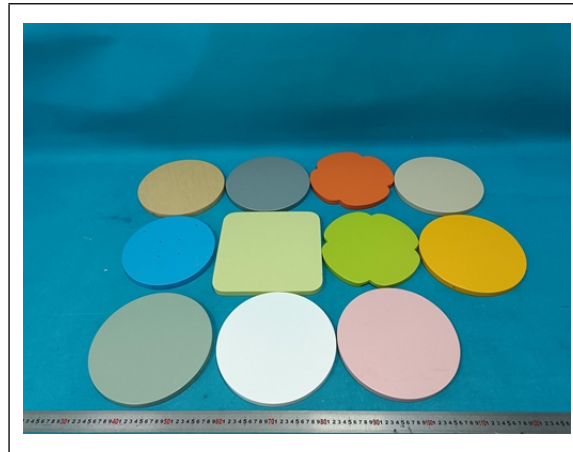
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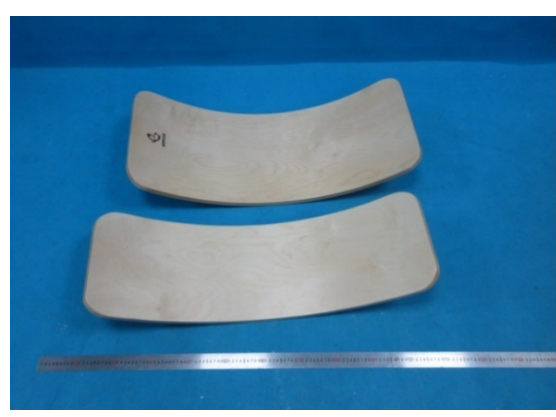
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End of Report



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