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Applicant: CARPENTERS MANUFACTORY LIMITED

Address: HUANG JIN JI INDUSTRIAL ZONE, SHANG JIE VILLAGE, QI SHI TOWN, DONG GUAN

CITY, GUANG DONG PROVINCE, P.R.CHINA

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

Sample Name: Wave Ladder - Low/Wave Climber/Wave Ladder - High/Steps/Slope - High/Slope -

Low/Platform - Low/Platform - High/Tunnel/Curved Steps/Zigzag Climber/1000L x 500W

Rectangular Mat/500L x 500W Square Mat/500L Triangular Mat/500L 90° Corner Mat

Model/Style/Item #: ME18250,ME18267,ME18274,ME18281,ME18342,ME18298,ME18304,ME18311,ME1832 8,ME18380,ME18397,ME19035,ME19042,ME19318,ME19325

Labeled Age Grading: 6M+

Requested Age

Grading:

6M+

Tested Age Grading: 6M+

Receiving Date: 27-May-2021, 25-Jun-2021, 17-Dec-2021

Test Period: From 27-May-2021 to 22-Dec-2021

Add Information: -

Signed for and on behalf of STS LEVING SERVICES

Tim Qi
(Technical Director)







Test Summary:

#	Test Item(s)	Reference Standard/Method	Result			
1	Safety of Toys: Mechanical and Physical Properties	EN 71-1:2014+A1:2018	PASS			
2	General labeling requirement(CE marking, manufacturer/importer name and address, and product identification)	2009/48/EC	PASS			
3	Safety of Toys: Flammability	EN 71-2:2011+A1:2014	PASS			
4	Safety of Toys: Migration of Certain Elements	EN 71-3:2019	PASS			
5	Phthalate content (DIBP、DEHP、DBP、BBP、DINP、DIDP、DNOP) -Item 51&52 of Annex XVII of REACH Regulation (EC) 1907/2006.	EN 14372:2004 & IEC 62321-8:2017, determined by GC-MS	PASS			
6	Cadmium content -Item 23 of Annex XVII of REACH Regulation (EC) 1907/2006	XVII of REACH IEC 62321-5:2013, determined by AAS				
7	Azo colorants content - Item 43 of Annex XVII of the REACH Regulation (EC) No 1907/2006 & amendment (EC) No 552/2009 and (EU) No 126/2013	colorants content - Item 43 of Annex XVII of the CH Regulation (EC) No 1907/2006 & ISO 14362-1:2017 & ISO 14362-3:2017, Indignate (EC) No 552/2009 and (EU) No determined by GC/MS and HPLC				
8	Mechanical and Physical Propertie	ASTM F963-17				
9	Flammability of Solids	16 CFR 1500.44 / ASTM F963-17, A5	PASS			
10	Soluble Migrated Elements ASTM F963-17	ASTM F963-17, determined by ICP-OES	PASS			
11	Lead Content (Pb) ASTM F963-17	CPSC-CH-E1001-08.3 (Metal Substrate), CPSC-CH-E1002-08.3 (Non- metal Substrate), CPSC-CH-E1003-09.1				
12	(Surface Coating), determined by AAS CPSC-CH-E1001-08.3 (Metal Lead Content (Pb) CPSIA H.R. 4040 Sec. 101 Substrate), CPSC-CH-E1002-08.3 (Nonmetal Substrate), CPSC-CH-E1003-09.1 (Surface Coating), determined by AAS					
13	,	CPSC-CH-E1003-09.1(Surface Coating) ,determined by AAS	PASS			
14	Phthalates (DIBP, DBP, DPENP, DHEXP, BBP, DEHP, DCHP, DINP)-Consumer Product Safety Improvement Act of 2008(H.R. 4040) & H.R.2715 amendment &16 CFR Part 1307	CPSC-CH-C1001-09.4, Solvent extract and determined by GC/MS	PASS			
15	Phthalates (DEHP、DBP、BBP、DINP、DIDP、DNOP)- Canada Consumer Product Safety Act: Phthalates Regulations (SOR/2016-188).	Canada Health Product Safety laboratory Book 5-Laboratory Policies and Procedures Part B:Testing Methods Section,Method C34 Determination of Phthalates in Polyvinyl Chloride Consumer Products ,Solvent extract and determined by GC/MS	PASS			
16	Mechanical and Physical Properties	SOR/2011-17	PASS			
17	Flammability	SOR/2011-17	PASS			



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18	Lead Content (Pb) and Mercury Content (Hg) SOR/2011-17	SOR/2011-17, determined by ICP-OES	PASS
19	Soluble Migrated Elements SOR/2011-17	SOR/2011-17, determined by ICP-OES	PASS
20	Mechanical and Physical Propertie - Australian/New Zealand Standard on Safety of Toys	AS/NZS 8124.1:2016	PASS
21	Flammability Properties - Australian/New Zealand Standard on Safety of Toys	AS/NZS 8124.2:2016	PASS
22	Soluble elements Content- Australian/New Zealand Standard on Safety of Toys	AS/NZS 8124.3:2012+A1:2016,determined by ICP	PASS
23	Phthalates content- As Client's Requirement	CPSC-CH-C1001-09.4, determined by GC-MS	SEE RESULT

Result:

1. Safety of Toys: Mechanical and Physical Properties – EN 71-1:2014+A1:2018

PASS

Clause	Parameter	Results		
4	General requirements			
4.1	Material cleanliness	Pass		
4.2	Assembly	NA		
4.3	Flexible plastic sheeting	Pass		
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		



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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	Pass
4.16	Heavy immobile toys	NA
4.17	Projectile toys	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 requirement	Pass
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
5.8	Shape and size of certain toys	NA
5.9	Toys comprising monofilament fibres	NA



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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	NA
7	Warnings, markings and instructions for use	
7.1	General	Pass
7.2	Toys not intended for children under 36 months	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 otherwise intended to be strung across a cradle, cot, or perambulator	NA
7.12	Liquid-filled teethers	NA
7.13	Percussion caps specifically designed for use in toys	NA
7.14	Acoustics	NA
7.15	Toy bicycles	NA
7.16	Toys intended to bear the mass of a child	NA



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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 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

Remark(s): NA = Not Applicable

2. General labeling requirement - 2009/48/EC

PASS

Item(s)	Results
CE Mark	Pass
Manufacturer/importer name and address	Pass
Product identification	Pass

3. Safety of Toys: Flammability - EN 71-2:2011+A1:2014

PASS

Clause	Parameter	Results			
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			



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4.5 Soft-filled toys NA

Remark(s): NA = Not Applicable

4. Safety of Toys: Migration of Certain Elements

EN 71-3:2019
General elements determined by ICP-MS
Chromium(VI) determined by IC-ICP-MS
Organic tin determined by GC-MS

			Ма	terial			
	Compound		Limit (mg/kg)	RL (mg/kg)			
		1	2	3	4		
1	Aluminum (Al)	20	19	21	20	28130	10
2	Antimony (Sb)	N.D.	N.D.	N.D.	N.D.	560	2
3	Arsenic(As)	N.D.	N.D.	N.D.	N.D.	47	0.2
4	Barium(Ba)	29	28	30	16	18750	10
5	Boron (B)	N.D.	N.D.	N.D.	N.D.	15000	10
6	Cadmium (Cd)	N.D.	N.D.	N.D.	N.D.	17	0.01
7	Chromium (III) (Cr)	N.D.	N.D.	N.D.	N.D.	460	1.0
8	Chromium (VI) (Cr)	N.D.	N.D.	N.D.	N.D.	0.053	0.005
9	Cobalt (Co)	N.D.	N.D.	N.D.	N.D.	130	0.2
10	Copper (Cu)	N.D.	N.D.	N.D.	N.D.	7700	10
11	Lead(Pb)	N.D.	N.D.	N.D.	N.D.	23	0.1
12	Manganese (Mn)	N.D.	N.D.	N.D.	N.D.	15000	10
13	Mercury (Hg)	N.D.	N.D.	N.D.	N.D.	94	0.2
14	Nickel (Ni)	N.D.	N.D.	N.D.	N.D.	930	1.0
15	Selenium(Se)	N.D.	N.D.	N.D.	N.D.	460	1.0
16	Strontium (Sr)	N.D.	N.D.	N.D.	N.D.	56000	10

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17	Tin (Sn)	N.D.	N.D.	N.D.	N.D.	180000	4.9
18	Organic tin (Sn)	N.D.*2	N.D.*2	N.D.*2	N.D.*2	12* ²	0.05 *2
19	Zinc (Zn)	33	32	34	30	46000	10
	Conclusion	PASS	PASS	PASS	PASS	-	-

			Ма	terial			
	Compound	Category III ^{*1}				Limit (mg/kg)	RL (mg/kg)
		5	6	7	8		
/1	Aluminum (Al)	19	21	16	15	28130	10
2	Antimony (Sb)	N.D.	N.D.	N.D.	N.D.	560	2
3	Arsenic(As)	N.D.	N.D.	N.D.	N.D.	47	0.2
4	Barium(Ba)	15	17	19	18	18750	10
5	Boron (B)	N.D.	N.D.	N.D.	N.D.	15000	10
6	Cadmium (Cd)	N.D.	N.D.	N.D.	N.D.	17	0.01
7	Chromium (III) (Cr)	N.D.	N.D.	N.D.	N.D.	460	1.0
8	Chromium (VI) (Cr)	N.D.	N.D.	N.D.	N.D.	0.053	0.005
9	Cobalt (Co)	N.D.	N.D.	N.D.	N.D.	130	0.2
10	Copper (Cu)	N.D.	N.D.	N.D.	N.D.	7700	10
11	Lead(Pb)	N.D.	N.D.	N.D.	N.D.	23	0.1
12	Manganese (Mn)	N.D.	N.D.	N.D.	N.D.	15000	10
13	Mercury (Hg)	N.D.	N.D.	N.D.	N.D.	94	0.2
14	Nickel (Ni)	N.D.	N.D.	N.D.	N.D.	930	1.0
15	Selenium(Se)	N.D.	N.D.	N.D.	N.D.	460	1.0
16	Strontium (Sr)	N.D.	N.D.	N.D.	N.D.	56000	10
17	Tin (Sn)	N.D.	N.D.	N.D.	N.D.	180000	4.9
18	Organic tin (Sn)	N.D.*2	N.D.*2	N.D.*2	N.D.*2	12*2	0.05 *2



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19	Zinc (Zn)	29	31	23	22	46000	10
	Conclusion	PASS	PASS	PASS	PASS	-	-

			Mat	erial			
	Compound		Catego	ory III*1		Limit (mg/kg)	RL (mg/kg)
		9	10	11	12		
1	Aluminum (AI)	17	19	N.D.	12	28130	10
2	Antimony (Sb)	N.D.	N.D.	N.D.	N.D.	560	2
3	Arsenic(As)	N.D.	N.D.	N.D.	N.D.	47	0.2
4	Barium(Ba)	20	20	N.D.	N.D.	18750	10
5	Boron (B)	N.D.	N.D.	N.D.	N.D.	15000	10
6	Cadmium (Cd)	N.D.	N.D.	N.D.	N.D.	17	0.01
7	Chromium (III) (Cr)	N.D.	N.D.	N.D.	N.D.	460	1.0
8	Chromium (VI) (Cr)	N.D.	N.D.	N.D.	N.D.	0.053	0.005
9	Cobalt (Co)	N.D.	N.D.	N.D.	N.D.	130	0.2
10	Copper (Cu)	N.D.	N.D.	N.D.	N.D.	7700	10
11	Lead(Pb)	N.D.	N.D.	N.D.	N.D.	23	0.1
12	Manganese (Mn)	N.D.	N.D.	N.D.	N.D.	15000	10
13	Mercury (Hg)	N.D.	N.D.	N.D.	N.D.	94	0.2
14	Nickel (Ni)	N.D.	N.D.	N.D.	N.D.	930	1.0
15	Selenium(Se)	N.D.	N.D.	N.D.	N.D.	460	1.0
16	Strontium (Sr)	N.D.	N.D.	N.D.	N.D.	56000	10
17	Tin (Sn)	N.D.	N.D.	N.D.	N.D.	180000	4.9
18	Organic tin (Sn)	N.D.*2	N.D.*2	N.D.*2	N.D.*2	12*2	0.05 *2
19	Zinc (Zn)	24	24	N.D.	N.D.	46000	10
	Conclusion	PASS	PASS	PASS	PASS	-	-



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	Compound		Categ	ory III*1		Limit (mg/kg)	RL (mg/kg)
		13	14	15	16		
1	Aluminum (Al)	N.D.	77	N.D.	11	28130	10
2	Antimony (Sb)	N.D.	N.D.	N.D.	N.D.	560	2
3	Arsenic(As)	N.D.	N.D.	N.D.	N.D.	47	0.2
4	Barium(Ba)	N.D.	N.D.	N.D.	N.D.	18750	10
5	Boron (B)	N.D.	N.D.	N.D.	N.D.	15000	10
6	Cadmium (Cd)	N.D.	N.D.	N.D.	N.D.	17	0.01
7	Chromium (III) (Cr)	N.D.	N.D.	N.D.	N.D.	460	1.0
8	Chromium (VI) (Cr)	N.D.	N.D.	N.D.	N.D.	0.053	0.005
9	Cobalt (Co)	N.D.	N.D.	N.D.	N.D.	130	0.2
10	Copper (Cu)	N.D.	N.D.	N.D.	N.D.	7700	10
11	Lead(Pb)	N.D.	N.D.	N.D.	N.D.	23	0.1
12	Manganese (Mn)	N.D.	N.D.	N.D.	N.D.	15000	10
13	Mercury (Hg)	N.D.	N.D.	N.D.	N.D.	94	0.2
14	Nickel (Ni)	N.D.	N.D.	N.D.	N.D.	930	1.0
15	Selenium(Se)	N.D.	N.D.	N.D.	N.D.	460	1.0
16	Strontium (Sr)	65	N.D.	N.D.	N.D.	56000	10
17	Tin (Sn)	N.D.	N.D.	N.D.	N.D.	180000	4.9
18	Organic tin (Sn)	N.D.*2	N.D.*2	N.D.*2	N.D.*2	12*2	0.05 *2
19	Zinc (Zn)	N.D.	N.D.	N.D.	N.D.	46000	10
	Conclusion	PASS	PASS	PASS	PASS	-	-



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		1124		
	Compound	Material Category III ^{*1}	Limit	RL
	Compound	17	(mg/kg)	(mg/kg)
1	Aluminum (Al)	N.D.	28130	10
2	Antimony (Sb)	N.D.	560	2
3	Arsenic(As)	N.D.	47	0.2
4	Barium(Ba)	N.D.	18750	10
5	Boron (B)	N.D.	15000	10
6	Cadmium (Cd)	N.D.	17	0.01
7	Chromium (III) (Cr)	N.D.	460	1.0
8	Chromium (VI) (Cr)	N.D.	0.053	0.005
9	Cobalt (Co)	N.D.	130	0.2
10	Copper (Cu)	N.D.	7700	10
11	Lead(Pb)	N.D.	23	0.1
12	Manganese (Mn)	N.D.	15000	10
13	Mercury (Hg)	N.D.	94	0.2
14	Nickel (Ni)	N.D.	930	1.0
15	Selenium(Se)	N.D.	460	1.0
16	Strontium (Sr)	N.D.	56000	10
17	Tin (Sn)	N.D.	180000	4.9
18	Organic tin (Sn)	N.D.*2	12*2	0.05 *2
19	Zinc (Zn)	N.D.	46000	10
	Conclusion	PASS	-	-





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Remark(s): (a) mg/kg: milligram per kilogram = part per million = ppm

(b) RL: Report limit

(c) N.D.: Not detected (result is less than RL)

*1: Categories of various materials:
Category I: Dry, brittle, powder like or pliable material

Category II: Liquid or sticky material Category III: Scraped-off material *2: Expressed as soluble Tributyltin.

5. Phthalate content (DIBP、DEHP、DBP、BBP、DINP、DIDP、DNOP) - Item 51& 52 of Annex XVII of REACH Regulation (EC) 1907/2006

EN 14372:2004 & IEC 62321-8:2017, determined by GC-MS

		0		Mat	erial		Limit	RL
		Compound	1	2	3	4	(%)	(%)
1	DBP	Dibutyl Phthalate CAS# 84-74-2	N.D.	N.D.	N.D.	N.D.	-	0.005
2	BBP	Benzylbutyl Phthalate CAS# 85-68-7	N.D.	N.D.	N.D.	N.D.	/ <u>-</u>	0.005
3	DEHP	Bis-(2-ethylhexyl)Phthalate CAS# 117-81-7	N.D.	N.D.	N.D.	N.D.	-	0.005
4	DIBP	Diisobutyl phthalate CAS# 84-69-5	N.D.	N.D.	N.D.	N.D.	-	0.005
5	DNOP	Di-n-octyl phthalate CAS# 117-84-0	N.D.	N.D.	N.D.	N.D.	-	0.005
6	DINP	Di-iso-nonyl phthalate CAS# 28553-12-0	N.D.	N.D.	N.D.	N.D.	-	0.005
7	DIDP	Diisodecyl phthalate CAS# 26761-40-0	N.D.	N.D.	N.D.	N.D.	-	0.005
8	Sum of	1, 2, 3 & 4	N.D.	N.D.	N.D.	N.D.	0.1	-
9	Sum of	5, 6 & 7	N.D.	N.D.	N.D.	N.D.	0.1	
	Conclu	sion	PASS	PASS	PASS	PASS	-	-

	Compound			Mat	Limit	RL		
			5	6	7	8	(%)	(%)
1	DBP	Dibutyl Phthalate CAS# 84-74-2	N.D.	N.D.	N.D.	N.D.	-	0.005
2	ВВР	Benzylbutyl Phthalate CAS# 85-68-7	N.D.	N.D.	N.D.	N.D.	-	0.005
3	DEHP	Bis-(2-ethylhexyl)Phthalate CAS# 117-81-7	N.D.	N.D.	N.D.	N.D.	- (0.005
4	DIBP	Diisobutyl phthalate CAS# 84-69-5	N.D.	N.D.	N.D.	N.D.	- (0.005
5	DNOP	Di-n-octyl phthalate CAS# 117-84-0	N.D.	N.D.	N.D.	N.D.	-	0.005
6	DINP	Di-iso-nonyl phthalate CAS# 28553-12-0	N.D.	N.D.	N.D.	N.D.	-	0.005



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	Conclu	sion	PASS	PASS	PASS	PASS	-	-
9	Sum of	5, 6 & 7	N.D.	N.D.	N.D.	N.D.	0.1	_
8	Sum of	1, 2, 3 & 4	N.D.	N.D.	N.D.	N.D.	0.1	-
7	DIDP	Diisodecyl phthalate CAS# 26761-40-0	N.D.	N.D.	N.D.	N.D.	-	0.005

		Commonad		Mat	erial		Limit	RL
		Compound	9	10	11	12	(%)	(%)
1	DBP	Dibutyl Phthalate CAS# 84-74-2	N.D.	N.D.	N.D.	N.D.	-	0.005
2	BBP	Benzylbutyl Phthalate CAS# 85-68-7	N.D.	N.D.	N.D.	N.D.	-	0.005
3	DEHP	Bis-(2-ethylhexyl)Phthalate CAS# 117-81-7	N.D.	N.D.	N.D.	N.D.) -	0.005
4	DIBP	Diisobutyl phthalate CAS# 84-69-5	N.D.	N.D.	N.D.	N.D.	-	0.005
5	DNOP	Di-n-octyl phthalate CAS# 117-84-0	N.D.	N.D.	N.D.	N.D.	-	0.005
6	DINP	Di-iso-nonyl phthalate CAS# 28553-12-0	N.D.	N.D.	N.D.	N.D.		0.005
7	DIDP	Diisodecyl phthalate CAS# 26761-40-0	N.D.	N.D.	N.D.	N.D.	-	0.005
8	Sum of	1, 2, 3 & 4	N.D.	N.D.	N.D.	N.D.	0.1	-
9	Sum of	5, 6 & 7	N.D.	N.D.	N.D.	N.D.	0.1	-
	Conclu	sion	PASS	PASS	PASS	PASS	-	-

		Compound	Mate	Material			
		Compound	17	20	(%)	(%)	
1	DBP	Dibutyl Phthalate CAS# 84-74-2	N.D.	N.D.		0.005	
2	BBP	Benzylbutyl Phthalate CAS# 85-68-7	N.D.	N.D.	<u></u>	0.005	
3	DEHP	Bis-(2-ethylhexyl)Phthalate CAS# 117-81-7	N.D.	N.D.	-	0.005	
4	DIBP	Diisobutyl phthalate CAS# 84-69-5	N.D.	N.D.	-	0.005	
5	DNOP	Di-n-octyl phthalate CAS# 117-84-0	N.D.	N.D.	- (0.005	
6	DINP	Di-iso-nonyl phthalate CAS# 28553-12-0	N.D.	N.D.	- 1	0.005	
7	DIDP	Diisodecyl phthalate CAS# 26761-40-0	N.D.	N.D.	-	0.005	



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	Conclusion	PASS	PASS	-	-
9	Sum of 5, 6 & 7	N.D.	N.D.	0.1	-
8	Sum of 1, 2, 3 & 4	N.D.	N.D.	0.1	-

Remark(s): (a) RL: Report limit (b) N.D.: Not detected (result is less than RL)

Cadmium content -Item 23 of Annex XVII of REACH Regulation (EC) 1907/2006 6. IEC 62321-5:2013, determined by AAS

	Compound		Mat	Limit	RL		
	Compound	1	2	3	4	(mg/kg)	(mg/kg)
1	Cadmium (Cd) CAS#7440-43-9	N.D.	N.D.	N.D.	N.D.	100	10
	Conclusion	PASS	PASS	PASS	PASS	-	-

	Compound		Mat	Limit	RL		
	Compound	5	6	7	8	(mg/kg)	(mg/kg)
1	Cadmium (Cd) CAS#7440-43-9	N.D.	N.D.	N.D.	N.D.	100	10
	Conclusion	PASS	PASS	PASS	PASS	-	-

	Commonad		Mate	Limit	RL		
Compound		9	10	11	12	(mg/kg)	(mg/kg)
1	Cadmium (Cd) CAS#7440-43-9	N.D.	N.D.	N.D.	N.D.	100	10
	Conclusion	PASS	PASS	PASS	PASS	-	-

Compound		Mat	Material		
	Compound	17	20	(mg/kg)	(mg/kg)
1	Cadmium (Cd) CAS#7440-43-9	N.D.	N.D.	100	10
	Conclusion	PASS	PASS	-	-

Remark(s): (a) mg/kg: milligram per kilogram (b) RL: Report limit

(c) N.D.: Not detected (result is less than RL)





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7. Azo colourants content - Item 43 of Annex XVII of REACH Regulation (EC) No 1907/2006 & amendment EC No 552/2009 and (EU) No 126/2013 ISO 14362-1:2017& ISO 14362-3:2017, determined by GC/MS and HPLC

	Commonad		Mat	erial		Limit	RL
	Compound	1 2 3 4		4	(mg/kg)	(mg/kg)	
1	Biphenyl-4-ylamine/4-aminobiphenyl/ Xenylamine CAS#92-67-1	N.D.	N.D.	N.D.	N.D.	30	5
2	Benzidine CAS#92-87-5	N.D.	N.D.	N.D.	N.D.	30	5
3	4-chloro-o-toluidine CAS#95-69-2	N.D.	N.D.	N.D.	N.D.	30	5
4	2-Naphthylamine CAS#91-59-8	N.D.	N.D.	N.D.	N.D.	30	5
5	o-aminoazotoluene/4-o-tolyazao-o- toluidine /4-amino-2',3- dimethylazobenzene*	N.D.	N.D.	N.D.	N.D.	30	5
6	5-nitro-o-toluidine/2-amino-4- nitrotoluol* CAS#99-55-8	N.D.	N.D.	N.D.	N.D.	30	5
7	4-chloroaniline CAS#106-47-8	N.D.	N.D.	N.D.	N.D.	30	5
8	4-methoxy-m-phenylenediamine/ 2,4-diaminoanisole CAS#615-05-4	N.D.	N.D.	N.D.	N.D.	30	5
9	4,4'-methylenedianiline/ 4,4'-diaminodiphenylmethane CAS#101-77-9	N.D.	N.D.	N.D.	N.D.	30	5
10	3,3'-dichlorobenzidine/ 3,3'-dichlorobiphenyl-4,4'- ylenediamine CAS#91-94-1	N.D.	N.D.	N.D.	N.D.	30	5
11	3,3'-dimethoxybenzidine/o-dianisidine CAS#119-90-4	N.D.	N.D.	N.D.	N.D.	30	5
12	3,3'-dimethylbenzidine/4,4'-bi-o- toluidine CAS#119-93-7	N.D.	N.D.	N.D.	N.D.	30	5
13	4,4'-methylenedi-o-toluidine CAS#838-88-0	N.D.	N.D.	N.D.	N.D.	30	5
14	6-methoxy-m-toluidine/p-cresidine CAS#120-71-8	N.D.	N.D.	N.D.	N.D.	30	5
15	4,4'-methylene-bis-(2-chloro-aniline)/ 2,2'-dichloro-4,4'-methylene-dianiline CAS#101-14-4	N.D.	N.D.	N.D.	N.D.	30	5
16	4,4'-oxydianiline CAS#101-80-4	N.D.	N.D.	N.D.	N.D.	30	5
17	4,4'-thiodianiline CAS#139-65-1	N.D.	N.D.	N.D.	N.D.	30	5
18	o-toluidine/2-aminotoluen CAS#95-53-4	N.D.	N.D.	N.D.	N.D.	30	5
19	2,4-diaminotoluene/2,4- toluylendiamine/ methyl-m-phenylenediamine CAS#95-80-7	N.D.	N.D.	N.D.	N.D.	30	5



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	Conclusion	PASS	PASS	PASS	PASS	-	-
22	4-aminoazobenzene** CAS#60-09-3	N.D.	N.D.	N.D.	N.D.	30	5
21	o-anisidine/2-methoxyaniline CAS#90-04-0	N.D.	N.D.	N.D.	N.D.	30	5
20	2,4,5-trimethylaniline CAS#137-17-7	N.D.	N.D.	N.D.	N.D.	30	5

	0	Material				Material		Limit	RL
	Compound	5	6	7	8	(mg/kg)	(mg/kg)		
1	Biphenyl-4-ylamine/4-aminobiphenyl/ Xenylamine CAS#92-67-1	N.D.	N.D.	N.D.	N.D.	30	5		
2	Benzidine CAS#92-87-5	N.D.	N.D.	N.D.	N.D.	30	5		
3	6-chloro-o-toluidine CAS#95-69-2	N.D.	N.D.	N.D.	N.D.	30	5		
4	3-Naphthylamine CAS#91-59-8	N.D.	N.D.	N.D.	N.D.	30	5		
5	o-aminoazotoluene/4-o-tolyazao-o- toluidine /4-amino-2',3- dimethylazobenzene* CAS#97-56-3	N.D.	N.D.	N.D.	N.D.	30	5		
6	7-nitro-o-toluidine/2-amino-4- nitrotoluol* CAS#99-55-8	N.D.	N.D.	N.D.	N.D.	30	5		
7	4-chloroaniline CAS#106-47-8	N.D.	N.D.	N.D.	N.D.	30	5		
8	4-methoxy-m-phenylenediamine/ 2,4-diaminoanisole CAS#615-05-4	N.D.	N.D.	N.D.	N.D.	30	5		
9	4,4'-methylenedianiline/ 4,4'-diaminodiphenylmethane CAS#101-77-9	N.D.	N.D.	N.D.	N.D.	30	5		
10	3,3'-dichlorobenzidine/ 3,3'-dichlorobiphenyl-4,4'- ylenediamine CAS#91-94-1	N.D.	N.D.	N.D.	N.D.	30	5		
-11	3,3'-dimethoxybenzidine/o-dianisidine CAS#119-90-4	N.D.	N.D.	N.D.	N.D.	30	5		
12	3,3'-dimethylbenzidine/4,4'-bi-o- toluidine CAS#119-93-7	N.D.	N.D.	N.D.	N.D.	30	5		
13	4,4'-methylenedi-o-toluidine CAS#838-88-0	N.D.	N.D.	N.D.	N.D.	30	5		
14	6-methoxy-m-toluidine/p-cresidine CAS#120-71-8	N.D.	N.D.	N.D.	N.D.	30	5		
15	4,4'-methylene-bis-(2-chloro-aniline)/ 2,2'-dichloro-4,4'-methylene-dianiline CAS#101-14-4	N.D.	N.D.	N.D.	N.D.	30	5		
16	4,4'-oxydianiline CAS#101-80-4	N.D.	N.D.	N.D.	N.D.	30	5		
17	4,4'-thiodianiline CAS#139-65-1	N.D.	N.D.	N.D.	N.D.	30	5		



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	Conclusion	PASS	PASS	PASS	PASS	-	-
22	4-aminoazobenzene** CAS#60-09-3	N.D.	N.D.	N.D.	N.D.	30	5
21	o-anisidine/2-methoxyaniline CAS#90-04-0	N.D.	N.D.	N.D.	N.D.	30	5
20	2,4,5-trimethylaniline CAS#137-17-7	N.D.	N.D.	N.D.	N.D.	30	5
19	2,4-diaminotoluene/2,4- toluylendiamine/ methyl-m-phenylenediamine CAS#95-80-7	N.D.	N.D.	N.D.	N.D.	30	5
18	o-toluidine/2-aminotoluen CAS#95-53-4	N.D.	N.D.	N.D.	N.D.	30	5

		122	Mat	erial		Limit	RL
	Compound	9	10	13	14	(mg/kg)	(mg/kg)
1	Biphenyl-4-ylamine/4-aminobiphenyl/ Xenylamine CAS#92-67-1	N.D.	N.D.	N.D.	N.D.	30	5
2	Benzidine CAS#92-87-5	N.D.	N.D.	N.D.	N.D.	30	5
3	8-chloro-o-toluidine CAS#95-69-2	N.D.	N.D.	N.D.	N.D.	30	5
4	4-Naphthylamine CAS#91-59-8	N.D.	N.D.	N.D.	N.D.	30	5
5	o-aminoazotoluene/4-o-tolyazao-o- toluidine /4-amino-2',3- dimethylazobenzene* CAS#97-56-3	N.D.	N.D.	N.D.	N.D.	30	5
6	9-nitro-o-toluidine/2-amino-4- nitrotoluol* CAS#99-55-8	N.D.	N.D.	N.D.	N.D.	30	5
7	4-chloroaniline CAS#106-47-8	N.D.	N.D.	N.D.	N.D.	30	5
8	4-methoxy-m-phenylenediamine/ 2,4-diaminoanisole CAS#615-05-4	N.D.	N.D.	N.D.	N.D.	30	5
9	4,4'-methylenedianiline/ 4,4'-diaminodiphenylmethane CAS#101-77-9	N.D.	N.D.	N.D.	N.D.	30	5
10	3,3'-dichlorobenzidine/ 3,3'-dichlorobiphenyl-4,4'- ylenediamine CAS#91-94-1	N.D.	N.D.	N.D.	N.D.	30	5
11	3,3'-dimethoxybenzidine/o-dianisidine CAS#119-90-4	N.D.	N.D.	N.D.	N.D.	30	5
12	3,3'-dimethylbenzidine/4,4'-bi-o- toluidine CAS#119-93-7	N.D.	N.D.	N.D.	N.D.	30	5
13	4,4'-methylenedi-o-toluidine CAS#838-88-0	N.D.	N.D.	N.D.	N.D.	30	5
14	6-methoxy-m-toluidine/p-cresidine CAS#120-71-8	N.D.	N.D.	N.D.	N.D.	30	5
15	4,4'-methylene-bis-(2-chloro-aniline)/ 2,2'-dichloro-4,4'-methylene-dianiline CAS#101-14-4	N.D.	N.D.	N.D.	N.D.	30	5

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	Conclusion	PASS	PASS	PASS	PASS	-	-
22	4-aminoazobenzene** CAS#60-09-3	N.D.	N.D.	N.D.	N.D.	30	5
21	o-anisidine/2-methoxyaniline CAS#90-04-0	N.D.	N.D.	N.D.	N.D.	30	5
20	2,4,5-trimethylaniline CAS#137-17-7	N.D.	N.D.	N.D.	N.D.	30	5
19	2,4-diaminotoluene/2,4- toluylendiamine/ methyl-m-phenylenediamine CAS#95-80-7	N.D.	N.D.	N.D.	N.D.	30	5
18	o-toluidine/2-aminotoluen CAS#95-53-4	N.D.	N.D.	N.D.	N.D.	30	5
17	4,4'-thiodianiline CAS#139-65-1	N.D.	N.D.	N.D.	N.D.	30	5
16	4,4'-oxydianiline CAS#101-80-4	N.D.	N.D.	N.D.	N.D.	30	5

	Material		erial	Limit	RL	
	Compound	15	16	(mg/kg)	(mg/kg)	
1	Biphenyl-4-ylamine/4-aminobiphenyl/ Xenylamine CAS#92-67-1	N.D.	N.D.	30	5	
2	Benzidine CAS#92-87-5	N.D.	N.D.	30	5	
3	10-chloro-o-toluidine CAS#95-69-2	N.D.	N.D.	30	5	
4	5-Naphthylamine CAS#91-59-8	N.D.	N.D.	30	5	
5	o-aminoazotoluene/4-o-tolyazao-o- toluidine /4-amino-2',3- dimethylazobenzene* CAS#97-56-3	N.D.	N.D.	30	5	
6	11-nitro-o-toluidine/2-amino-4- nitrotoluol* CAS#99-55-8	N.D.	N.D.	30	5	
7	4-chloroaniline CAS#106-47-8	N.D.	N.D.	30	5	
8	4-methoxy-m-phenylenediamine/ 2,4-diaminoanisole CAS#615-05-4	N.D.	N.D.	30	5	
9	4,4'-methylenedianiline/ 4,4'-diaminodiphenylmethane CAS#101-77-9	N.D.	N.D.	30	5	
10	3,3'-dichlorobenzidine/ 3,3'-dichlorobiphenyl-4,4'- ylenediamine CAS#91-94-1	N.D.	N.D.	30	5	
11	3,3'-dimethoxybenzidine/o-dianisidine CAS#119-90-4	N.D.	N.D.	30	5	
12	3,3'-dimethylbenzidine/4,4'-bi-o- toluidine CAS#119-93-7	N.D.	N.D.	30	5	
13	4,4'-methylenedi-o-toluidine CAS#838-88-0	N.D.	N.D.	30	5	



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	Conclusion	PASS	PASS	-	•
22	4-aminoazobenzene** CAS#60-09-3	N.D.	N.D.	30	5
21	o-anisidine/2-methoxyaniline CAS#90-04-0	N.D.	N.D.	30	5
20	2,4,5-trimethylaniline CAS#137-17-7	N.D.	N.D.	30	5
19	2,4-diaminotoluene/2,4- toluylendiamine/ methyl-m-phenylenediamine CAS#95-80-7	N.D.	N.D.	30	5
18	o-toluidine/2-aminotoluen CAS#95-53-4	N.D.	N.D.	30	5
17	4,4'-thiodianiline CAS#139-65-1	N.D.	N.D.	30	5
16	4,4'-oxydianiline CAS#101-80-4	N.D.	N.D.	30	5
15	4,4'-methylene-bis-(2-chloro-aniline)/ 2,2'-dichloro-4,4'-methylene-dianiline CAS#101-14-4	N.D.	N.D.	30	5
14	6-methoxy-m-toluidine/p-cresidine CAS#120-71-8	N.D.	N.D.	30	5

Remark(s): (a) mg/kg: milligram per kilogram (b) N.D.: Not detected (result is less than RL)

Mechanical and Physical Properties - ASTM F963-17

PASS

Clause	Parameter	Results
4	Safety Requirements	
4.1	Material Quality	Pass
4.4	Electrical / Thermal Energy	NA
4.5	Sound-Producing Toys	NA
4.6	Small Objects	Pass
4.7	Accessible Edges	Pass
4.8	Projections	NA

⁽c) RL: Report limit
*: The amines o-aminoazotoluene (No 5, CAS No.97-56-3) and 2-amino-4-nitrotoluene (No 6, CAS No.99-55-8) are further reduced to o-toluidine (No 18,

CAS No. 95-53-4) and 2, 4-diaminotoluene (No 19, CAS No. 95-80-7).

**: Azo colorants that are able to form 4-aminoazobenzene (No 22, CAS No. 60-09-3) generate, under the condition of this method, aniline (CAS No. 62-53-3) and 1, 4-phenylendiamine (CAS No. 106-50-3). Due to detection limits, only aniline may be detected. If aniline is detected above 5mg/kg, then the presence of these colorants should be tested by ISO 14362-3:2017.



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4.9	Accessible Points	Pass
4.10	Wires or Rods	NA
4.11	Nails and Fasteners	NA
4.12	Plastic Film	Pass
4.13	Folding Mechanisms and Hinges	NA
4.14	Cords, Straps, and Elastics	NA
4.15	Stability and Over-Load Requirements	Pass
4.16	Confined Spaces	NA
4.17	Wheels, Tires, and Axles	NA
4.18	Holes, Clearance, and Accessibility of Mechanisms	NA
4.19	Simulated Protective Devices	NA
4.20	Pacifiers	NA
4.21	Projectile Toys	NA
4.22	Teethers and Teething Toys	NA
4.23	Rattles	NA
4.24	Squeeze Toys	NA
4.26	Toys Intended to be Attached to a Crib or Playpen	NA
4.27	Stuffed and Beanbag-Type Toys	NA
4.28	Stroller and Carriage Toys	NA
4.29	Art Materials	NA
4.30	Toy Gun Marking	NA
4.31	Balloons	NA
4.32	Certain Toys with Nearly Spherical Ends	NA
4.33	Marbles	NA
4.34	Balls	NA



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4.35	Pompoms	NA
4.36	Hemispheric-Shaped Objects	NA
4.37	Yo Yo Elastic Tether Toys	NA
4.38	Magnets	NA
4.39	Jaw Entrapments in Handles and Steering Wheels	NA
4.40	Expanding Materials	NA
4.41	Toy Chests	NA
5	Labeling Requirements	
5.1	Federal Government Requirements	NA
5.2	Age Grading Labeling	Pass
5.3	Safety Labeling Requirements	Pass
5.4	Aquatic Toys	NA
5.5	Crib and Playpen Toys	NA
5.6	Mobiles	NA
5.7	Stroller and Carriage Toys	NA
5.8	Toys Intended to be Assembled by an Adult	NA
5.9	Simulated Protective Devices	NA
5.10	Toys with Functional Sharp Edges or Points	NA
5.11	Small Objects, Small Balls, Marbles, and Balloons	Pass
5.12	Toy Caps	NA
5.13	Art Materials	NA
5.14	Electric Toys	NA
5.16	Promotional Materials	NA
5.17	Magnets	NA
6	Instructional Literature	



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6.1	Definition and Description	NA
6.2	Crib and Playpen Toys	NA
6.3	Mobiles	NA
6.4	Toys Intended to be Assembled by an Adult	NA
6.7	Toys in Contact with Food	NA
6.8	Toy Chests	NA
7	Producer's Markings	Pass
8	Test Methods	
8.5	Normal Use Testing	Pass
8.6	Abuse Testing	Pass
8.7	Impact Tests	Pass
8.8	Torque Tests for Removal of Components	Pass
8.9	Tension Tests for Removal of Components	Pass
8.10	Compression Tests	Pass

Remark(s): NA = Not Applicable

9. Flammability of Solids - 16 CFR 1500.44 / ASTM F963-17, A5

PASS

Clause	Parameter	Results
16 CFR 1500.44 / ASTM F963-17, A5	Flammability	Pass

10. Soluble Migrated Elements ASTM F963-17, determined by ICP-OES

Compound			Mat	erial		Limit	RL
		1	2	3	4	(mg/kg)	(mg/kg)
1	Antimony (Sb)	N.D.	N.D.	N.D.	N.D.	60	5



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	Conclusion	PASS	PASS	PASS	PASS	-	-
8	Selenium (Se)	N.D.	N.D.	N.D.	N.D.	500	5
7	Mercury (Hg)	N.D.	N.D.	N.D.	N.D.	60	5
6	Lead (Pb)	N.D.	N.D.	N.D.	N.D.	90	5
5	Chromium (Cr)	N.D.	N.D.	N.D.	N.D.	60	5
4	Cadmium (Cd)	N.D.	N.D.	N.D.	N.D.	75	5
3	Barium (Ba)	20	20	20	11	1000	5
2	Arsenic (As)	N.D.	N.D.	N.D.	N.D.	25	2

			Mat	erial		Limit	RL	
	Compound	5	6	7	8	(mg/kg)	(mg/kg	
1	Antimony (Sb)	N.D.	N.D.	N.D.	N.D.	60	5	
2	Arsenic (As)	N.D.	N.D.	N.D.	N.D.	25	2	
3	Barium (Ba)	11	11	13	13	1000	5	
4	Cadmium (Cd)	N.D.	N.D.	N.D.	N.D.	75	5	
5	Chromium (Cr)	N.D.	N.D.	N.D.	N.D.	60	5	
6	Lead (Pb)	N.D.	N.D.	N.D.	N.D.	90	5	
7	Mercury (Hg)	N.D.	N.D.	N.D.	N.D.	60	5	
8	Selenium (Se)	N.D.	N.D.	N.D.	N.D.	500	5	
	Conclusion	PASS	PASS	PASS	PASS	-	-	

	Camananad		Mat	erial		Limit			
	Compound	9	10	11	12	(mg/kg)	(mg/kg)		
1	Antimony (Sb)	N.D.	N.D.	N.D.	N.D.	60	5		
2	Arsenic (As)	N.D.	N.D.	N.D.	N.D.	25	2		
3	Barium (Ba)	14	14	N.D.	N.D.	1000	5		
4	Cadmium (Cd)	N.D.	N.D.	N.D.	N.D.	75	5		
5	Chromium (Cr)	N.D.	N.D.	N.D.	N.D.	60	5		



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8	Selenium (Se)	N.D.	N.D.	N.D.	N.D.	500	5
7	Mercury (Hg)	N.D.	N.D.	N.D.	N.D.	60	5
6	Lead (Pb)	N.D.	N.D.	N.D.	N.D.	90	5

			Ma	terial		Limit	RL
	Compound	13	14	15	16	(mg/kg)	(mg/kg)
1	Antimony (Sb)	N.D.	N.D.	N.D.	N.D.	60	5
2	Arsenic (As)	N.D.	N.D.	N.D.	N.D.	25	2
3	Barium (Ba)	N.D.	N.D.	N.D.	N.D.	1000	5
4	Cadmium (Cd)	N.D.	N.D.	N.D.	N.D.	75	5
5	Chromium (Cr)	N.D.	N.D.	N.D.	N.D.	60	5
6	Lead (Pb)	N.D.	N.D.	N.D.	N.D.	90	5
7	Mercury (Hg)	N.D.	N.D.	N.D.	N.D.	60	5
8	Selenium (Se)	N.D.	N.D.	N.D.	N.D.	500	5
	Conclusion	PASS	PASS	PASS	PASS	-	-

	Commound	Material	Limit	RL (mg/kg)				
	Compound	17	(mg/kg)					
1	Antimony (Sb)	N.D.	60	5				
2	Arsenic (As)	N.D.	25	2				
3	Barium (Ba)	N.D.	1000	5				
4	Cadmium (Cd)	N.D.	75	5				
5	Chromium (Cr)	N.D.	60	5				
6	Lead (Pb)	N.D.	90	5				
7	Mercury (Hg)	N.D.	60	5				
8	Selenium (Se)	N.D.	500	5				
	Conclusion	PASS	-	-				



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Remark(s): (a) mg/kg: milligram per kilogram

(b) RL: Report limit

(c) N.D.: Not detected (result is less than RL)

11. Lead Content (Pb) - ASTM F963-17

CPSC-CH-E1001-08.3 (Metal Substrate), CPSC-CH-E1002-08.3 (Non-metal Substrate), CPSC-CH-E1003-09.1 (Surface Coating), determined by AAS

Compound			Mat	erial	Limit	RL	
	Compound	1	2	3	4	(mg/kg)	(mg/kg)
1	Lead (Pb)	N.D.	N.D.	N.D.	N.D.	100	10
di la	Conclusion	PASS	PASS	PASS	PASS	-	-

	Compound		Limit	RL			
	Compound	5	6	7	8	(mg/kg)	(mg/kg)
1	Lead (Pb)	N.D.	N.D.	N.D.	N.D.	100	10
	Conclusion	PASS	PASS	PASS	PASS	-	-

Compound			Mat	Limit	RL		
	Compound	9	10	11	12	(mg/kg)	(mg/kg)
1	Lead (Pb)	N.D.	N.D.	N.D.	N.D.	100	10
	Conclusion	PASS	PASS	PASS	PASS	-	-

	Compound	Mate	Limit	RL	
	Compound	18	19	(mg/kg)	(mg/kg)
1	Lead (Pb)	18	N.D.	100	10
Conclusion		PASS	PASS	-	-

	Compound	Material	Limit	RL (mg/kg)
		17	(mg/kg)	(mg/kg)
1	Lead (Pb)	N.D.	90	10
	Conclusion	PASS	-	-



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Remark(s): (a) mg/kg: milligram per kilogram

(b) RL: Report limit

(c) N.D.: Not detected (result is less than RL)

Lead Content (Pb) - CPSIA H.R. 4040 Sec. 101 12.

CPSC-CH-E1001-08.3 (Metal Substrate), CPSC-CH-E1002-08.3 (Non-metal Substrate), CPSC-CH-E1003-09.1 (Surface Coating), determined by AAS

	Compound		Mat	Limit	RL		
	Compound	1	2	3	4	(mg/kg)	(mg/kg)
1	Lead (Pb)	N.D.	N.D.	N.D.	N.D.	100	10
	Conclusion	PASS	PASS	PASS	PASS	-	-

	Commonad		Material				
	Compound	5	6	7	8	(mg/kg)	(mg/kg)
1	Lead (Pb)	N.D.	N.D.	N.D.	N.D.	100	10
	Conclusion	PASS	PASS	PASS	PASS	-	-
				•		1	

	Compound		Mat	Limit	RL		
	Compound	9	10	11	12	(mg/kg)	(mg/kg)
1	Lead (Pb)	N.D.	N.D.	N.D.	N.D.	100	10
	Conclusion	PASS	PASS	PASS	PASS	-	-

	Compound	Mate	Limit	RL	
	Compound	18	19	(mg/kg)	(mg/kg)
1	Lead (Pb)	18	N.D.	100	10
Conclusion		PASS	PASS	-	-

	Compound	Material 17	Limit (mg/kg)	RL (mg/kg)
1	Lead (Pb)	N.D.	90	10
	Conclusion	PASS	-	-



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Remark(s): (a) mg/kg: milligram per kilogram

(b) RL: Report limit

(c) N.D.: Not detected (result is less than RL)

Lead Content (Pb) - 16 CFR 1303

CPSC-CH-E1003-09.1(Surface Coating), determined by AAS

	Compound	Material	Limit	RL
	Compound	17	(mg/kg)	(mg/kg)
1	Lead (Pb)	N.D.	90	10
	Conclusion	PASS	-	-

Remark(s): (a) mg/kg: milligram per kilogram (b) RL: Report limit

(c) N.D.: Not detected (result is less than RL)

Phthalates (DIBP, DBP, DPENP, DHEXP, BBP, DEHP, DCHP, DINP)-Consumer Product Safety 14. Improvement Act of 2008(H.R. 4040) & H.R.2715 amendment &16 CFR Part 1307.

CPSC-CH-C1001-09.4, Solvent extract and determined by GC/MS

	0		Material				Limit	RL
	Co	mpound	1	2	3	4	(%)	(%)
1	DIBP	Diisobutyl phthalate CAS# 84-69-5	N.D.	N.D.	N.D.	N.D.	0.1	0.005
2	DBP	Dibutyl phthalate CAS# 84-74-2	N.D.	N.D.	N.D.	N.D.	0.1	0.005
3	DPENP	Di-n-pentyl Phthalate CAS# 131-18-0	N.D.	N.D.	N.D.	N.D.	0.1	0.005
4	DHEXP	Di-n-hexyl Phthalate CAS# 84-75-3	N.D.	N.D.	N.D.	N.D.	0.1	0.005
5	BBP	Benzyl butyl phthalate CAS# 85-68-7	N.D.	N.D.	N.D.	N.D.	0.1	0.005
6	DEHP	Bis (2-ethylhexyl) phthalate CAS# 117-81-7	N.D.	N.D.	N.D.	N.D.	0.1	0.005
7	DCHP	Dicyclohexly Phthalate CAS# 84-61-7	N.D.	N.D.	N.D.	N.D.	0.1	0.005
8	DINP	Di-iso-nonyl phthalate CAS# 28553-12-0,68515- 48-0	N.D.	N.D.	N.D.	N.D.	0.1	0.005
	Conclusion		PASS	PASS	PASS	PASS	-	-

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			Material				Limit	RL		
	Co	pmpound	5	6	7	8	(%)	(%)		
1	DIBP	Diisobutyl phthalate CAS# 84-69-5	N.D.	N.D.	N.D.	N.D.	0.1	0.005		
2	DBP	Dibutyl phthalate CAS# 84-74-2	N.D.	N.D.	N.D.	N.D.	0.1	0.005		
3	DPENP	Di-n-pentyl Phthalate CAS# 131-18-0	N.D.	N.D.	N.D.	N.D.	0.1	0.005		
4	DHEXP	Di-n-hexyl Phthalate CAS# 84-75-3	N.D.	N.D.	N.D.	N.D.	0.1	0.005		
5	BBP	Benzyl butyl phthalate CAS# 85-68-7	N.D.	N.D.	N.D.	N.D.	0.1	0.005		
6	DEHP	Bis (2-ethylhexyl) phthalate CAS# 117-81-7	N.D.	N.D.	N.D.	N.D.	0.1	0.005		
7	DCHP	Dicyclohexly Phthalate CAS# 84-61-7	N.D.	N.D.	N.D.	N.D.	0.1	0.005		
8	DINP	Di-iso-nonyl phthalate CAS# 28553-12-0,68515- 48-0	N.D.	N.D.	N.D.	N.D.	0.1	0.005		
	Conclusion		PASS	PASS	PASS	PASS	-	-		

	_		Material				Limit	RL
	Compound		9	10	11	12	(%)	(%)
1	DIBP	Diisobutyl phthalate CAS# 84-69-5	N.D.	N.D.	N.D.	N.D.	0.1	0.005
2	DBP	Dibutyl phthalate CAS# 84-74-2	N.D.	N.D.	N.D.	N.D.	0.1	0.005
3	DPENP	Di-n-pentyl Phthalate CAS# 131-18-0	N.D.	N.D.	N.D.	N.D.	0.1	0.005
4	DHEXP	Di-n-hexyl Phthalate CAS# 84-75-3	N.D.	N.D.	N.D.	N.D.	0.1	0.005
5	BBP	Benzyl butyl phthalate CAS# 85-68-7	N.D.	N.D.	N.D.	N.D.	0.1	0.005
6	DEHP	Bis (2-ethylhexyl) phthalate CAS# 117-81-7	N.D.	N.D.	N.D.	N.D.	0.1	0.005
7	DCHP	Dicyclohexly Phthalate CAS# 84-61-7	N.D.	N.D.	N.D.	N.D.	0.1	0.005
8	DINP	Di-iso-nonyl phthalate CAS# 28553-12-0,68515- 48-0	N.D.	N.D.	N.D.	N.D.	0.1	0.005
	Conclusion		PASS	PASS	PASS	PASS	-	-

	Compound		Material	Limit	RL
			17	(%)	(%)
1	DIBP	Diisobutyl phthalate CAS# 84-69-5	N.D.	0.1	0.005



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	Conclusion		PASS	-	-
8	DINP	Di-iso-nonyl phthalate CAS# 28553-12-0,68515- 48-0	N.D.	0.1	0.005
7	DCHP	Dicyclohexly Phthalate CAS# 84-61-7	N.D.	0.1	0.005
6	DEHP	Bis (2-ethylhexyl) phthalate CAS# 117-81-7	N.D.	0.1	0.005
5	BBP	Benzyl butyl phthalate CAS# 85-68-7	N.D.	0.1	0.005
4	DHEXP	Di-n-hexyl Phthalate CAS# 84-75-3	N.D.	0.1	0.005
3	DPENP	Di-n-pentyl Phthalate CAS# 131-18-0	N.D.	0.1	0.005
2	DBP	Dibutyl phthalate CAS# 84-74-2	N.D.	0.1	0.005

Remark(s): (a) RL: Report limit

(b) N.D.: Not detected (result is less than RL)

15. Phthalates (DEHP、DBP、BBP、DINP、DIDP、DNOP)- Canada Consumer Product Safety Act: Phthalates Regulations (SOR/2016-188).

Canada Health Product Safety laboratory Book 5-Laboratory Policies and Procedures Part B:Testing Methods Section, Method C34 Determination of Phthalates in Polyvinyl Chloride Consumer Products, Solvent extract and determined by GC/MS

			Mata	i-al		
	C	ompound	Mate	eriai	Limit	RL
	Joinpound		11 12		(%)	(%)
1	DEHP	Bis (2-ethylhexyl) phthalate CAS# 117-81-7	N.D.	N.D.	0.1	0.005
2	DBP	Dibutyl phthalate CAS# 84-74-2	N.D.	N.D.	0.1	0.005
3	BBP	Benzyl butyl phthalate CAS# 85-68-7	N.D.	N.D.	0.1	0.005
4	DINP	Di-iso-nonyl phthalate CAS# 28553-12-0,68515- 48-0	N.D.	N.D.	0.1	0.005
5	DIDP	Diisodecyl phthalate CAS# 26761-40-0, 68515-49-1	N.D.	N.D.	0.1	0.005
6	6 DNOP Di-n-octyl phthalate CAS# 117-84-0		N.D.	N.D.	0.1	0.005
	Conclusion		PASS	PASS	-	-

Remark(s): (a) RL: Report limit

(b) N.D.: Not detected (result is less than RL)

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16. Mechanical and Physical Properties - SOR/2011-17

PASS

Clause	Parameter	Results
3	Official languages	NA
4	Flexible film bags	Pass
7	Small parts	Pass
8	Metal edges	NA
9	Wire frames	NA
10	Plastic edges	Pass
11	Wood	NA
12	Glass	NA
13	Fasteners	NA
14	Safety stops or locking devices	NA
15	Spring-wound driving mechanisms	NA
16	Projectile components	NA
17	Enclosures	NA
18	Stability	Pass
19	Decibel limit	NA
28	Dolls, plush toys and soft toys – Fastenings	NA
29	Dolls, plush toys and soft toys – Stuffing	NA
30	Dolls, plush toys and soft toys – Small parts	NA
31	Dolls, plush toys and soft toys – Eyes and noses	NA
35	Plant seeds – Noise	NA
36	Plant seeds – stuffing material	NA
37	Pull and push toys	NA
38	Toys steam engines	NA



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39	Finger paints	NA
40	Rattles	NA
41	Elastics	NA
42	Yo-yo type balls	NA
43	Magnetic toys	NA

Remark(s): NA = Not Applicable

17. Flammability - SOR/2011-17

PASS

Clause	Parameter	Results
21	Celluloid or cellulose nitrate	Pass
32	Dolls, plush toys and soft toys – Flammability of outer covering	NA
33	Dolls, plush toys and soft toys – Flammability of yarn	NA
34	Dolls, plush toys and soft toys – Flammability of hair or mane	NA

Lead Content (Pb) and Mercury Content (Hg) 18. SOR/2011-17, determined by ICP-OES

Compound			Material		Limit	RL (mg/kg)
		11	12	17	(mg/kg)	
1	Lead (Pb)	N.D.	N.D.	N.D.	90	10
2	Mercury (Hg)	N.D.	N.D.	N.D.	Not Detected	5
	Conclusion	PASS	PASS	PASS	-	-

Remark(s): (a) mg/kg: milligram per kilogram = part per million = ppm (b) RL: Report limit (c) N.D.: Not detected (result is less than RL)

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Soluble Migrated Elements SOR/2011-17, determined by ICP-OES 19.

	Compound		Material		Limit	RL
	Compound	11	12	17	(mg/kg)	(mg/kg)
1	Antimony (Sb)	N.D.	N.D.	N.D.	1000	5
2	Arsenic (As)	N.D.	N.D.	N.D.	1000	2
3	Barium (Ba)	N.D.	N.D.	N.D.	1000	5
4	Cadmium (Cd)	N.D.	N.D.	N.D.	1000	5
5	Selenium (Se)	N.D.	N.D.	N.D.	1000	5
	Conclusion	PASS	PASS	PASS	-	-

Remark(s): (a) mg/kg: milligram per kilogram = part per million = ppm (b) RL: Report limit (c) N.D.: Not detected (result is less than RL)

20. Mechanical and Physical Properties - Australian/New Zealand Standard on Safety of Toys AS/NZS 8124.1:2016

Section	Testing Items	Assessment
4	Requirements	
4.1	Normal use	Pass
4.2	Reasonably foreseeable abuse	Pass
4.3	Material	Pass
4.4	Small parts	Pass
4.5	Shape, size, and strength of certain toys	NA
4.6	Edges	Pass
4.7	Points	Pass
4.8	Projections	NA
4.9	Metal wires and rods	NA
4.10	Plastic film or plastic bags in packaging and in toys	Pass
4.11	Cords and elastics	NA



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Section	Testing Items	Assessment
4.12	Folding mechanisms	NA
4.13	Holes, clearances and accessibility of mechanisms	NA
4.14	Springs	NA
4.15	Stability and overload requirements	Pass
4.16	Enclosures	NA
4.17	Simulated protective equipment, such as helmets, hats and goggles.	NA NA
4.18	Projectile toys	NA
4.19	Rotors and propellers	NA
4.20	Aquatic toys	NA
4.21	Braking	NA
4.22	Toy bicycles	NA
4.23	Speed limitation of electrically driven ride-on toys	NA
4.24	Toys containing a heat source	NA
4.25	Liquid-filled toys	NA
4.26	Mouth-actuated toys	NA
4.27	Toy roller skates, toy inline skates and toy skateboards	NA
4.28	Percussion caps	NA
4.29	Acoustic requirements	NA
4.30	Toy scooters	NA
4.31	Magnets and magnetic components	NA
В	Safety-labeling guidelines and manufacturer's markings	Pass
B.2	Safety-labeling guidelines	Pass
B.3	Instructional literature	NA
	Manufacturer's markings	Pass
B.4	The name, trademark or mark of the manufacturer or the distributor	Pass
	The address of the manufacturer or the distributor	Pass



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Remark(s): NA = Not Applicable

21. Flammability Properties - Australian/New Zealand Standard on Safety of Toys AS/NZS 8124.2:2016

Section	Testing Items	Assessment
4.1	General requirement	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 a play	NA
4.4	Toys intended to be entered by a child	NA
4.5	Soft-filled toys (animals and dolls, etc.) with a piled or textile surface	NA

Remark(s): NA = Not Applicable

22. Soluble elements Content- Australian/New Zealand Standard on Safety of Toys AS/NZS 8124.3:2012+A1:2016,determined by ICP

	0.0000000000000000000000000000000000000		Mat	erial		Limit	RL (mg/kg)
	Compound	1	2	3	4	(mg/kg)	
1	Antimony (Sb)	N.D.	N.D.	N.D.	N.D.	60	5
2	Arsenic (As)	N.D.	N.D.	N.D.	N.D.	25	2
3	Barium (Ba)	20	20	20	11	1000	5
4	Cadmium (Cd)	N.D.	N.D.	N.D.	N.D.	75	5
5	Chromium (Cr)	N.D.	N.D.	N.D.	N.D.	60	5
6	Lead (Pb)	N.D.	N.D.	N.D.	N.D.	90	5
7	Mercury (Hg)	N.D.	N.D.	N.D.	N.D.	60	5
8	Selenium (Se)	N.D.	N.D.	N.D.	N.D.	500	5
	Conclusion	PASS	PASS	PASS	PASS	-	-

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	0		Mat	erial		Limit	RL
Compound		5	6	7	8	(mg/kg)	(mg/kg)
1	Antimony (Sb)	N.D.	N.D.	N.D.	N.D.	60	5
2	Arsenic (As)	N.D.	N.D.	N.D.	N.D.	25	2
3	Barium (Ba)	11	11	13	13	1000	5
4	Cadmium (Cd)	N.D.	N.D.	N.D.	N.D.	75	5
5	Chromium (Cr)	N.D.	N.D.	N.D.	N.D.	60	5
6	Lead (Pb)	N.D.	N.D.	N.D.	N.D.	90	5
7	Mercury (Hg)	N.D.	N.D.	N.D.	N.D.	60	5
8	Selenium (Se)	N.D.	N.D.	N.D.	N.D.	500	5
	Conclusion	PASS	PASS	PASS	PASS	-	-

	Commonad		Mate	erial		Limit	RL
	Compound	9	10	11	12	(mg/kg)	(mg/kg)
1	Antimony (Sb)	N.D.	N.D.	N.D.	N.D.	60	5
2	Arsenic (As)	N.D.	N.D.	N.D.	N.D.	25	2
3	Barium (Ba)	14	14	N.D.	N.D.	1000	5
4	Cadmium (Cd)	N.D.	N.D.	N.D.	N.D.	75	5
5	Chromium (Cr)	N.D.	N.D.	N.D.	N.D.	60	5
6	Lead (Pb)	N.D.	N.D.	N.D.	N.D.	90	5
7	Mercury (Hg)	N.D.	N.D.	N.D.	N.D.	60	5
8	Selenium (Se)	N.D.	N.D.	N.D.	N.D.	500	5
	Conclusion	PASS	PASS	PASS	PASS	-	-

	Compound		Mat	Limit	RL		
Compound		13	14	15	16	(mg/kg)	(mg/kg)
1	Antimony (Sb)	N.D.	N.D.	N.D.	N.D.	60	5
2	Arsenic (As)	N.D.	N.D.	N.D.	N.D.	25	2



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	Conclusion	PASS	PASS	PASS	PASS	-	-
8	Selenium (Se)	N.D.	N.D.	N.D.	N.D.	500	5
7	Mercury (Hg)	N.D.	N.D.	N.D.	N.D.	60	5
6	Lead (Pb)	N.D.	N.D.	N.D.	N.D.	90	5
5	Chromium (Cr)	N.D.	N.D.	N.D.	N.D.	60	5
4	Cadmium (Cd)	N.D.	N.D.	N.D.	N.D.	75	5
3	Barium (Ba)	N.D.	N.D.	N.D.	N.D.	1000	5

	Commonad	Material	Limit	RL	
	Compound	17	(mg/kg)	(mg/kg)	
1	Antimony (Sb)	N.D.	60	5	
2	Arsenic (As)	N.D.	25	2	
3	Barium (Ba)	N.D.	1000	5	
4	Cadmium (Cd)	N.D.	75	5	
5	Chromium (Cr)	N.D.	60	5	
6	Lead (Pb)	N.D.	90	5	
7	Mercury (Hg)	N.D.	60	5	
8	Selenium (Se)	N.D.	500	5	
	Conclusion	PASS	-	-	

Remark(s) (a) mg/kg: milligram per kilogram (b) RL: Report limit

(c) N.D.: Not detected (result is less than RL)

23. Phthalates content- As Client's Requirement Refer To CPSC-CH-C1001-09.4, determined by GC-MS

Compound			Mate	Client's	DL (9/)			
		1	2	3	4	Limit (%)	RL (%)	
1	DBP	Dibutyl phthalate CAS# 84-74-2	N.D.	N.D.	N.D.	N.D.	0.1	0.005
2	DEHP	Di(2-ethylhexyl) phthalate CAS# 117-81-7	N.D.	N.D.	N.D.	N.D.	0.1	0.005



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3	BBP	Benzyl butyl phthalate CAS# 85-68-7	N.D.	N.D.	N.D.	N.D.	0.1	0.005
4	DINP	Di-isononyl phthalate CAS# 68515-48-0	N.D.	N.D.	N.D.	N.D.	0.1	0.005
5	DNOP	Di-n-octyl phthalate CAS# 117-84-0	N.D.	N.D.	N.D.	N.D.	0.1	0.005
6	DIDP	Di-isodecyl phthalate CAS# 26761-40-0	N.D.	N.D.	N.D.	N.D.	0.1	0.005
7	DPP	Dipentyl phthalate CAS# 131-18-0	N.D.	N.D.	N.D.	N.D.	0.1	0.005
8	DIBP	Di-iso-butyl phthalate CAS# 84-69-5	N.D.	N.D.	N.D.	N.D.	0.1	0.005
9	Dnpp	Phthalic acid, bis-n-pentyl ester CAS# 131-18-0	N.D.	N.D.	N.D.	N.D.	0.1	0.005
10	DIHP	1,2-Benzenedicarboxylic acid, di-C6-8- branchedalkyl esters,C7- rich CAS# 71888-89-6	N.D.	N.D.	N.D.	N.D.	0.1	0.005
11	DHNUP	1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters CAS# 68515-42-4	N.D.	N.D.	N.D.	N.D.	0.1	0.005
12	DMEP	Dimethoxyethyl phthalate CAS# 117-82-8	N.D.	N.D.	N.D.	N.D.	0.1	0.005
13	DIPP	Di-isopentyl phthalate CAS# 605-50-5	N.D.	N.D.	N.D.	N.D.	0.1	0.005
14	PIPP	N-pentyl- isopentylphthalate O-CAS# 776297-69-9	N.D.	N.D.	N.D.	N.D.	0.1	0.005
15	-	1,2-Benzenedicarboxylic acid, dipentylester, branched and linear CAS# 84777-06-0	N.D.	N.D.	N.D.	N.D.	0.1	0.005
16	DHP	Di-n-hexyl phthalate CAS# 84-75-3	N.D.	N.D.	N.D.	N.D.	0.1	0.005
17	DNHP	Di-n-hexyl phthalate CAS# 84-75-3	N.D.	N.D.	N.D.	N.D.	0.1	0.005
					1	1	1	T.

	Compound			Mat	Client's	DI (%)		
	Compound			6	7	8	Limit (%)	RL (%)
1	DBP	Dibutyl phthalate CAS# 84-74-2	N.D.	N.D.	N.D.	N.D.	0.1	0.005
2	DEHP	Di(2-ethylhexyl) phthalate CAS# 117-81-7	N.D.	N.D.	N.D.	N.D.	0.1	0.005
3	BBP	Benzyl butyl phthalate CAS# 85-68-7	N.D.	N.D.	N.D.	N.D.	0.1	0.005
4	DINP	Di-isononyl phthalate CAS# 68515-48-0	N.D.	N.D.	N.D.	N.D.	0.1	0.005
5	DNOP	Di-n-octyl phthalate CAS# 117-84-0	N.D.	N.D.	N.D.	N.D.	0.1	0.005
6	DIDP	Di-isodecyl phthalate CAS# 26761-40-0	N.D.	N.D.	N.D.	N.D.	0.1	0.005

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7	DPP	Dipentyl phthalate CAS# 131-18-0	N.D.	N.D.	N.D.	N.D.	0.1	0.005
8	DIBP	Di-iso-butyl phthalate CAS# 84-69-5	N.D.	N.D.	N.D.	N.D.	0.1	0.005
9	Dnpp	Phthalic acid, bis-n-pentyl ester CAS# 131-18-0	N.D.	N.D.	N.D.	N.D.	0.1	0.005
10	DIHP	1,2-Benzenedicarboxylic acid, di-C6-8- branchedalkyl esters,C7- rich CAS# 71888-89-6	N.D.	N.D.	N.D.	N.D.	0.1	0.005
11	DHNUP	1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters CAS# 68515-42-4	N.D.	N.D.	N.D.	N.D.	0.1	0.005
12	DMEP	Dimethoxyethyl phthalate CAS# 117-82-8	N.D.	N.D.	N.D.	N.D.	0.1	0.005
13	DIPP	Di-isopentyl phthalate CAS# 605-50-5	N.D.	N.D.	N.D.	N.D.	0.1	0.005
14	PIPP	P-pentyl- isopentylphthalate Q-CAS# 776297-69-9	N.D.	N.D.	N.D.	N.D.	0.1	0.005
15	-	1,2-Benzenedicarboxylic acid, dipentylester, branched and linear CAS# 84777-06-0	N.D.	N.D.	N.D.	N.D.	0.1	0.005
16	DHP	Di-n-hexyl phthalate CAS# 84-75-3	N.D.	N.D.	N.D.	N.D.	0.1	0.005
17	DNHP	Di-n-hexyl phthalate CAS# 84-75-3	N.D.	N.D.	N.D.	N.D.	0.1	0.005

	0	d		Mat	Client's	RL (%)		
	Compo	ouna	9	10	11	12	Limit (%)	RL (%)
1	DBP	Dibutyl phthalate CAS# 84-74-2	N.D.	N.D.	N.D.	N.D.	0.1	0.005
2	DEHP	Di(2-ethylhexyl) phthalate CAS# 117-81-7	N.D.	N.D.	N.D.	N.D.	0.1	0.005
3	BBP	Benzyl butyl phthalate CAS# 85-68-7	N.D.	N.D.	N.D.	N.D.	0.1	0.005
4	DINP	Di-isononyl phthalate CAS# 68515-48-0	N.D.	N.D.	N.D.	N.D.	0.1	0.005
5	DNOP	Di-n-octyl phthalate CAS# 117-84-0	N.D.	N.D.	N.D.	N.D.	0.1	0.005
6	DIDP	Di-isodecyl phthalate CAS# 26761-40-0	N.D.	N.D.	N.D.	N.D.	0.1	0.005
7	DPP	Dipentyl phthalate CAS# 131-18-0	N.D.	N.D.	N.D.	N.D.	0.1	0.005
8	DIBP	Di-iso-butyl phthalate CAS# 84-69-5	N.D.	N.D.	N.D.	N.D.	0.1	0.005
9	Dnpp	Phthalic acid, bis-n-pentyl ester CAS# 131-18-0	N.D.	N.D.	N.D.	N.D.	0.1	0.005
10	DIHP	1,2-Benzenedicarboxylic acid, di-C6-8- branchedalkyl esters,C7- rich CAS# 71888-89-6	N.D.	N.D.	N.D.	N.D.	0.1	0.005

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11	DHNUP	1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters CAS# 68515-42-4	N.D.	N.D.	N.D.	N.D.	0.1	0.005
12	DMEP	Dimethoxyethyl phthalate CAS# 117-82-8	N.D.	N.D.	N.D.	N.D.	0.1	0.005
13	DIPP	Di-isopentyl phthalate CAS# 605-50-5	N.D.	N.D.	N.D.	N.D.	0.1	0.005
14	PIPP	R-pentyl- isopentylphthalate S-CAS# 776297-69-9	N.D.	N.D.	N.D.	N.D.	0.1	0.005
15	-	1,2-Benzenedicarboxylic acid, dipentylester, branched and linear CAS# 84777-06-0	N.D.	N.D.	N.D.	N.D.	0.1	0.005
16	DHP	Di-n-hexyl phthalate CAS# 84-75-3	N.D.	N.D.	N.D.	N.D.	0.1	0.005
17	DNHP	Di-n-hexyl phthalate CAS# 84-75-3	N.D.	N.D.	N.D.	N.D.	0.1	0.005

	0		Material	Client's	DI (0/.)
	Comp	ouna	17	Limit (%)	RL (%)
1	DBP	Dibutyl phthalate CAS# 84-74-2	N.D.	0.1	0.005
2	DEHP	Di(2-ethylhexyl) phthalate CAS# 117-81-7	N.D.	0.1	0.005
3	BBP	Benzyl butyl phthalate CAS# 85-68-7	N.D.	0.1	0.005
4	DINP	Di-isononyl phthalate CAS# 68515-48-0	N.D.	0.1	0.005
5	DNOP	Di-n-octyl phthalate CAS# 117-84-0	N.D.	0.1	0.005
6	DIDP	Di-isodecyl phthalate CAS# 26761-40-0	N.D.	0.1	0.005
7	DPP	Dipentyl phthalate CAS# 131-18-0	N.D.	0.1	0.005
8	DIBP	Di-iso-butyl phthalate CAS# 84-69-5	N.D.	0.1	0.005
9	Dnpp	Phthalic acid, bis-n-pentyl ester CAS# 131-18-0	N.D.	0.1	0.005
10	DIHP	1,2-Benzenedicarboxylic acid, di-C6-8- branchedalkyl esters,C7- rich CAS# 71888-89-6	N.D.	0.1	0.005
11	DHNUP	1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters CAS# 68515-42-4	N.D.	0.1	0.005
12	DMEP	Dimethoxyethyl phthalate CAS# 117-82-8	N.D.	0.1	0.005
13	DIPP	Di-isopentyl phthalate CAS# 605-50-5	N.D.	0.1	0.005
14	PIPP	T-pentyl- isopentylphthalate U-CAS# 776297-69-9	N.D.	0.1	0.005

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15		1,2-Benzenedicarboxylic acid, dipentylester, branched and linear CAS# 84777-06-0	N.D.	0.1	0.005
16	DHP	Di-n-hexyl phthalate CAS# 84-75-3	N.D.	0.1	0.005
17	DNHP	Di-n-hexyl phthalate CAS# 84-75-3	N.D.	0.1	0.005

Remark(s): (a) RL: Report limit (b) N.D.: Not detected (result is less than R

Material List:

Material #	Position / Sample Description
1	Red PU, shell
2	Yellow PU, shell
3	Orange PU, shell
4	Light purple PU, shell
5	Purple PU, shell
6	Blue PU, shell
7	Dark blue PU, shell
8	Green PU, shell
9	Yellow-green PU, shell
10	Nude PU, shell
11	Transparent plastic, zipper teeth
12	Beige hook tape, Velcro
13	Beige loop tape, Velcro
14	Black printed white fabric, label
15	Taupe/white fabric, logo
16	Beige fabric, zipper tape
17	Beige coating, zipper



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18	Silvery metal, zipper puller	
19	Silvery metal, zipper slider	
20	White foam, inner	(51-)

Remark(s): (a) The data of #1,#2,#6,#7,#10,#12 were retesting result.

Photo(s):



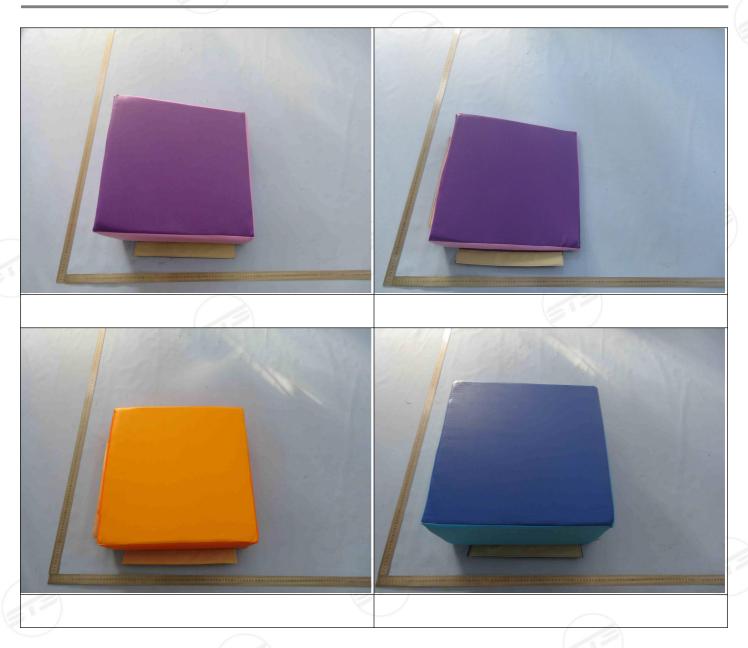
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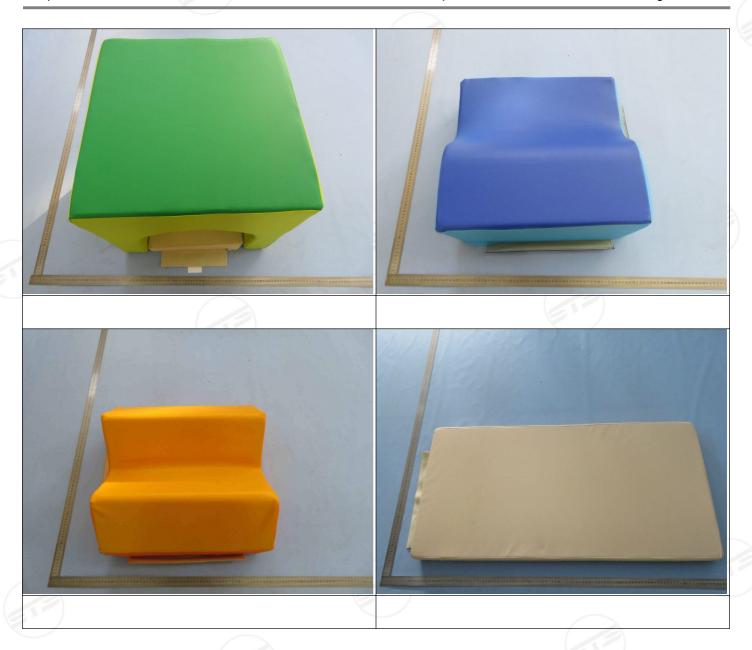


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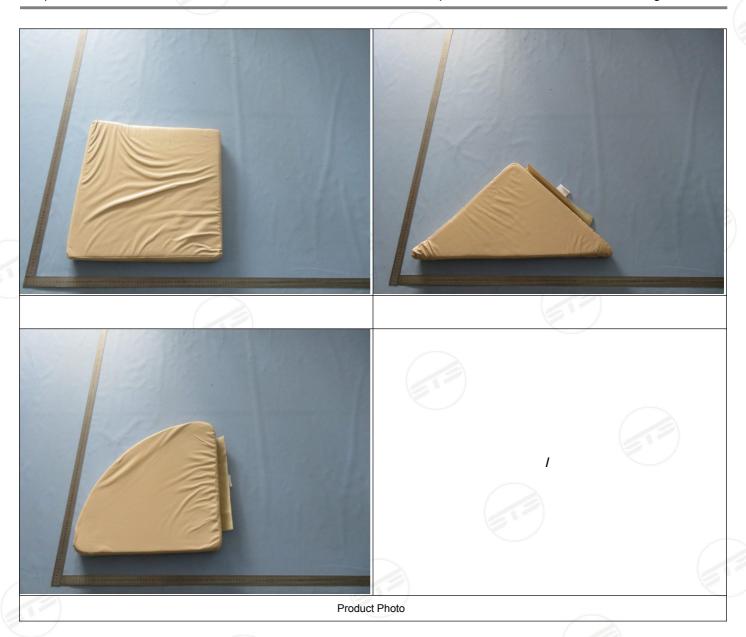


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声明

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