



TEST REPORT

Report No.: STSGZ2407263041E

Date: 26-Aug-2024

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Applicant : Mid Ocean Brands B.V.

Address: 7/F., Kings Tower, 111 King Lam Street, Cheung Sha Wan, Kowloon, Hong Kong

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

Sample Name: Drawing set

Model: MO9544

Vendor Code: 107978

Labeled Age Grading: Not provided

Requested Age Grading: 3y+

Tested Age Grading: 3y+

Receiving Date: 26-Jul-2024, 15-Aug-2024, 20-Aug-2024

Test Period: 26-Jul-2024 - 23-Aug-2024

Add Information: -

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	Safety of Toys: Flammability	EN 71-2:2020	PASS
3	Safety of Toys: Migration of Certain Elements	EN 71-3:2019+A1:2021	PASS
4	Cadmium content -Item 23 of Annex XVII of REACH Regulation (EC) 1907/2006	IEC 62321-5:2013, determined by AAS	PASS

Signed for and on behalf of STS

Mark Mai
(Technical Director)



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#	Test Item(s)	Reference Standard/Method	Result
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	Polycyclic-aromatic hydrocarbons (PAHs) content--Item 50 of Annex XVII of REACH Regulation (EC) 1907/2006 & amendment (EU) No 1272/2013	AfPS-GS-2019-01:PAK, determined by GC-MS	PASS
7	Pentachlorophenol (PCP) content - POPs European Regulation (EU) 2019/1021 Annex I	In house method, determined by GC-MS	PASS
8	Benzene content-Item 5 of Annex XVII of REACH Regulation (EC) 1907/2006	In house method, determined by GC-FID	PASS

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	NA
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

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4.12	Balloons	NA
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	NA
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	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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5.8	Shape and size of certain toys	NA
5.9	Toys comprising monofilament fibres	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	Pass
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	Pass
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 teethingers	NA
7.13	Percussion caps specifically designed for use in toys	NA

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7.14	Acoustics	NA
7.15	Toy bicycles	NA
7.16	Toys intended to bear the mass of a child	NA
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): (a) NA = Not Applicable

2. Safety of Toys: Flammability – EN 71-2:2020

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
4.5	Soft-filled toys	NA

Remark(s): (a) NA = Not Applicable

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3. Safety of Toys: Migration of Certain Elements

EN 71-3:2019+A1:2021

General elements determined by ICP-MS

Chromium(VI) determined by IC-ICP-MS

Organic tin determined by GC-MS

Compound		Material				Limit (mg/kg)	RL (mg/kg)
		Category III*1					
		1	2	3	4		
1	Aluminum (Al)	877	N.D.	2184	N.D.	28130	10
2	Antimony (Sb)	N.D.	N.D.	N.D.	N.D.	560	10
3	Arsenic(As)	N.D.	N.D.	N.D.	N.D.	47	5
4	Barium(Ba)	12	N.D.	20	N.D.	18750	10
5	Boron (B)	14	N.D.	13	N.D.	15000	10
6	Cadmium (Cd)	N.D.	N.D.	N.D.	N.D.	17	5
7	Chromium (III) (Cr)	N.D.	N.D.	N.D.	N.D.	460	10
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	10
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	5
12	Manganese (Mn)	N.D.	N.D.	20	N.D.	15000	10
13	Mercury (Hg)	N.D.	N.D.	N.D.	N.D.	94	10
14	Nickel (Ni)	N.D.	N.D.	N.D.	N.D.	930	10
15	Selenium(Se)	N.D.	N.D.	N.D.	N.D.	460	10
16	Strontium (Sr)	28	N.D.	22	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	0.2*2
19	Zinc (Zn)	14	112	36	N.D.	46000	10
	Conclusion	PASS	PASS	PASS	PASS	-	-

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Compound		Material				Limit (mg/kg)	RL (mg/kg)
		Category III* ¹					
		5	6	7	8		
1	Aluminum (Al)	N.D.	1818	10	N.D.	28130	10
2	Antimony (Sb)	N.D.	N.D.	N.D.	N.D.	560	10
3	Arsenic(As)	N.D.	N.D.	N.D.	N.D.	47	5
4	Barium(Ba)	N.D.	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	5
7	Chromium (III) (Cr)	N.D.	N.D.	N.D.	N.D.	460	10
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	10
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	5
12	Manganese (Mn)	N.D.	21	N.D.	N.D.	15000	10
13	Mercury (Hg)	N.D.	N.D.	N.D.	N.D.	94	10
14	Nickel (Ni)	N.D.	N.D.	N.D.	N.D.	930	10
15	Selenium(Se)	N.D.	N.D.	N.D.	N.D.	460	10
16	Strontium (Sr)	25	21	N.D.	11	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	0.2* ²
19	Zinc (Zn)	N.D.	31	N.D.	N.D.	46000	10
	Conclusion	PASS	PASS	PASS	PASS	-	-

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Compound		Material				Limit (mg/kg)	RL (mg/kg)
		Category III* ¹					
		15	16	17	18		
1	Aluminum (Al)	N.D.	N.D.	N.D.	N.D.	28130	10
2	Antimony (Sb)	N.D.	N.D.	N.D.	N.D.	560	10
3	Arsenic(As)	N.D.	N.D.	N.D.	N.D.	47	5
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	5
7	Chromium (III) (Cr)	N.D.	N.D.	N.D.	N.D.	460	10
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	10
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	5
12	Manganese (Mn)	N.D.	N.D.	49	N.D.	15000	10
13	Mercury (Hg)	N.D.	N.D.	N.D.	N.D.	94	10
14	Nickel (Ni)	N.D.	N.D.	N.D.	57	930	10
15	Selenium(Se)	N.D.	N.D.	N.D.	N.D.	460	10
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	0.2* ²
19	Zinc (Zn)	N.D.	N.D.	N.D.	N.D.	46000	10
	Conclusion	PASS	PASS	PASS	PASS	-	-

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Compound		Material						Limit (mg/kg)	RL (mg/kg)
		Category I*1							
		9	10	11	12	13	14		
1	Aluminum (Al)	92	103	225	159	175	100	2250	10
2	Antimony (Sb)	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	45	2
3	Arsenic(As)	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	3.8	0.2
4	Barium(Ba)	N.D.	205	53	11	N.D.	43	1500	10
5	Boron (B)	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	1200	10
6	Cadmium (Cd)	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	1.3	0.01
7	Chromium (III) (Cr)	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	37.5	1.0
8	Chromium (VI) (Cr)	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	0.02	0.002
9	Cobalt (Co)	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	10.5	0.2
10	Copper (Cu)	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	622.5	10
11	Lead(Pb)	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	2.0	0.1
12	Manganese (Mn)	11	11	N.D.	10	12	N.D.	1200	10
13	Mercury (Hg)	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	7.5	0.2
14	Nickel (Ni)	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	75	1.0
15	Selenium(Se)	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	37.5	1.0
16	Strontium (Sr)	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	4500	10
17	Tin (Sn)	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	15000	4.9
18	Organic tin (Sn)	N.D.*2	N.D.*2	N.D.*2	N.D.*2	N.D.*2	N.D.*2	0.9*2	0.05 *2
19	Zinc (Zn)	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	3750	10
	Conclusion	PASS	PASS	PASS	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)

*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.

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

Compound		Material	Limit (mg/kg)	RL (mg/kg)
		4+7		
1	Cadmium (Cd) CAS#7440-43-9	N.D.	1000	10
	Conclusion	PASS	-	-

Compound	Material						Limit (mg/kg)	RL (mg/kg)
	2	6	9+10+11	12+13+14	15	16		
1 Cadmium (Cd) CAS#7440-43-9	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	100	10
Conclusion	PASS	PASS	PASS	PASS	PASS	PASS	-	-

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

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

Compound			Material				Limit (%)	RL (%)
			2	4+7	6	9+10+11		
1	DBP	Dibutyl Phthalate CAS# 84-74-2	N.D.	N.D.	N.D.	N.D.	0.1	0.005
2	BBP	Benzylbutyl Phthalate CAS# 85-68-7	N.D.	N.D.	N.D.	N.D.	0.1	0.005
3	DEHP	Bis-(2-ethylhexyl)Phthalate CAS# 117-81-7	N.D.	N.D.	N.D.	N.D.	0.1	0.005
4	DIBP	Diisobutyl phthalate CAS# 84-69-5	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.	-	0.005
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	-

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9	Sum of 5, 6 & 7	N.D.	N.D.	N.D.	N.D.	0.1	-
	Conclusion	PASS	PASS	PASS	PASS	-	-

Compound			Material			Limit (%)	RL (%)
			12+13+14	15	16		
1	DBP	Dibutyl Phthalate CAS# 84-74-2	N.D.	N.D.	N.D.	0.1	0.005
2	BBP	Benzylbutyl Phthalate CAS# 85-68-7	N.D.	N.D.	N.D.	0.1	0.005
3	DEHP	Bis-(2-ethylhexyl)Phthalate CAS# 117-81-7	N.D.	N.D.	N.D.	0.1	0.005
4	DIBP	Diisobutyl phthalate CAS# 84-69-5	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.	-	0.005
6	DINP	Di-iso-nonyl phthalate CAS# 28553-12-0	N.D.	N.D.	N.D.	-	0.005
7	DIDP	Diisodecyl phthalate CAS# 26761-40-0	N.D.	N.D.	N.D.	-	0.005
8	Sum of 1, 2, 3 & 4		N.D.	N.D.	N.D.	0.1	-
9	Sum of 5, 6 & 7		N.D.	N.D.	N.D.	0.1	-
	Conclusion		PASS	PASS	PASS	-	-

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

6. Polycyclic-aromatic hydrocarbons (PAHs) content - Item 50 of Annex XVII of REACH Regulation (EC) 1907/2006 & amendment (EU) No 1272/2013 AfPS-GS-2019-01:PAK, determined by GC-MS

Compound		Material				Limit (mg/kg)	RL (mg/kg)
		Category II*1					
		2	4+7	6	9+10+11		
1	Benz[a]anthracene(BaA) CAS#56-55-3	N.D.	N.D.	N.D.	N.D.	0.5	0.2
2	Chrysene(CHR) CAS#218-01-9	N.D.	N.D.	N.D.	N.D.	0.5	0.2
3	Benz[b]fluoranthene(BbFA) CAS#205-99-2	N.D.	N.D.	N.D.	N.D.	0.5	0.2

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4	Benz[k]fluoranthene(BkFA) CAS#207-08-9	N.D.	N.D.	N.D.	N.D.	0.5	0.2
5	Benz[j]fluoranthene(BjFA) CAS#205-82-3	N.D.	N.D.	N.D.	N.D.	0.5	0.2
6	Benzo[a]pyrene(BaP) CAS#50-32-8	N.D.	N.D.	N.D.	N.D.	0.5	0.2
7	Benzo[e]pyrene(BeP) CAS#192-97-2	N.D.	N.D.	N.D.	N.D.	0.5	0.2
8	Dibenz [a,h]anthracene (DBahA) CAS#53-70-3	N.D.	N.D.	N.D.	N.D.	0.5	0.2
	Conclusion	PASS	PASS	PASS	PASS	-	-

Compound		Material			Limit (mg/kg)	RL (mg/kg)
		Category II*1				
		12+13+14	15	16		
1	Benz[a]anthracene(BaA) CAS#56-55-3	N.D.	N.D.	N.D.	0.5	0.2
2	Chrysene(CHR) CAS#218-01-9	N.D.	N.D.	N.D.	0.5	0.2
3	Benz[b]fluoranthene(BbFA) CAS#205-99-2	N.D.	N.D.	N.D.	0.5	0.2
4	Benz[k]fluoranthene(BkFA) CAS#207-08-9	N.D.	N.D.	N.D.	0.5	0.2
5	Benz[j]fluoranthene(BjFA) CAS#205-82-3	N.D.	N.D.	N.D.	0.5	0.2
6	Benzo[a]pyrene(BaP) CAS#50-32-8	N.D.	N.D.	N.D.	0.5	0.2
7	Benzo[e]pyrene(BeP) CAS#192-97-2	N.D.	N.D.	N.D.	0.5	0.2
8	Dibenz [a,h]anthracene (DBahA) CAS#53-70-3	N.D.	N.D.	N.D.	0.5	0.2
	Conclusion	PASS	PASS	PASS	-	-

Remark: (a) mg/kg: milligram per kilogram
(b) RL: Report limit
(c) N.D.: Not detected (result is less than RL)
1: Material category

Category I: Articles come into direct as well as prolonged or short-term repetitive contact with the human skin or the oral cavity, under normal or reasonably foreseeable conditions of use.

Category II: Toys, including activity toys, and childcare articles, that come into direct as well as prolonged or short-term repetitive contact with the human skin or the oral cavity, under normal or reasonably foreseeable conditions of use.

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7. Pentachlorophenol (PCP) content - POPs European Regulation (EU) 2019/1021 Annex I In house method, determined by GC-MS

Compound		Material	Limit (mg/kg)	RL (mg/kg)
		8		
1	Pentachlorophenol(PCP) CAS#87-86-5	N.D.	Not Detected	5
	Conclusion	PASS	-	-

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

8. Benzene content-Item 5 of Annex XVII of REACH Regulation (EC) 1907/2006 In house method, determined by GC-FID

Compound		Material						Limit (mg/kg)	RL (mg/kg)
		2	4	7	9	10	11		
1	Benzene CAS#71-43-2	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	5#	0.5
	Conclusion	PASS	PASS	PASS	PASS	PASS	PASS	-	-

Compound		Material					Limit (mg/kg)	RL (mg/kg)
		12	13	14	15	16		
1	Benzene CAS#71-43-2	N.D.	N.D.	N.D.	N.D.	N.D.	5#	0.5
	Conclusion	PASS	PASS	PASS	PASS	PASS	-	-

Remark(s): (a) RL: Report limit
(b) N.D.: Not detected (result is less than RL)
(c) mg/kg = milligram per kilogram = ppm
(d) Materials #10~#14 are the test results of the resubmitted sample.

#:

- Shall not be used in toys or parts of toys where the concentration of benzene in the free state is greater than 5mg/kg (0.0005%) of the weight of the toy or part of toy
- Toys and parts of toys not complying with paragraph 1 shall not be placed on the market.
- Shall not be placed on the market, or used,
- However, paragraph 3 shall not apply to:
 - motor fuels which are covered by Directive 98/70/EC;
 - substances and mixtures for use in industrial processes not allowing for the emission of benzene in quantities in excess of those laid down in existing legislation
 - natural gas placed on the market for use by consumers, provided that the concentration of benzene remains below 0.1% volume/volume

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Material List:

Material #	Position / Sample Description
1	Brown paperboard,surface
2	Matte green foam,frame
3	Brown paper,inside pages
4	Black coating,pattern
5	White paper,inside pages
6	Red/black printed brown paper,inside pages
7	Transparent coating,pen surface
8	Brown wood,pen
9	Green crayon,pen core
10	Red crayon,pen core
11	Black crayon,pen core
12	Blue crayon,pen core
13	Yellow crayon,pen core
14	Brown crayon,pen core
15	White eraser
16	White plastic,shell
17	Silvery metal,blade
18	Silvery metal,screw

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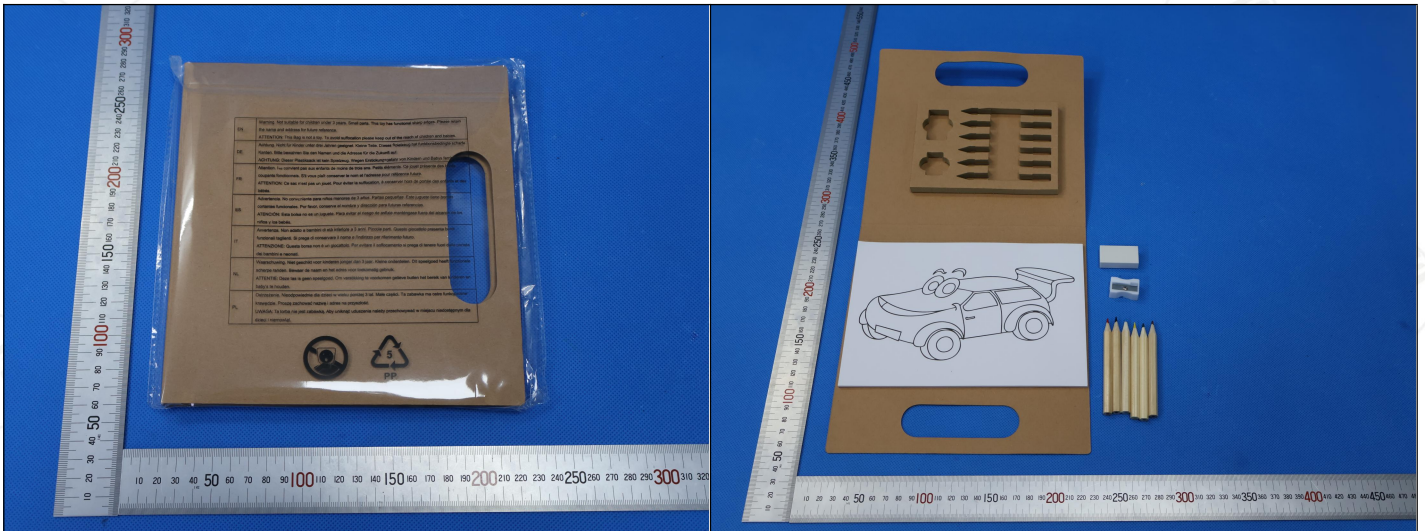
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Photo(s):



Test Sample Photo

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