

TEST REPORT

Test Report # 19H-007635 Date of Report Issue: October 30, 2019
Date of Sample Received: October 15, 2019 Pages: Page 1 of 20

CLIENT INFORMATION:

Company: Hit Promotional Products
Recipient: Nathan Cotter
Recipient Email: ncotter@hitpromo.net



SAMPLE INFORMATION:

Description: Fun Cube
Assortment: 8 colors Purchase Order Number: 339616
SKU No.: 0761 Agent: Growth-Sonic
Factory No.: 127656 Country of Origin: China
Country of Distribution: United States Labeled Age Grade: -
Quantity Submitted: 5 pcs (Red/White, Lime/White, Orange/White, Navy/White, White/Blue, White/Black, White/White), 4 pcs (Black/White) + 1 lot Paint Requested Age Grade: 5+
Testing Period: 10/16/2019 – 10/24/2019 Tested Age Grade: Over 5 years of age
10/25/2019 – 10/30/2019

OVERALL RESULT:

PASS

Refer to page 2 for test result summary and appropriate notes.

QIMA Testing (HK) Limited

Loska Yeung Lok Ka
Assistant Manager, Chemical Laboratory

QIMA Testing (HK) Limited

Ricky Cheung Chin Yeung
Manager, Physical Laboratory

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TEST RESULTS SUMMARY:

At the request of the client, the following tests were conducted:

CONCLUSION	TEST(S) CONDUCTED
PASS	CPSIA Section 106 & ASTM F963-17 Toy Safety, Clause 4.3.5 Total Elements Screening in Substrate Materials
PASS	CPSIA Section 106 & ASTM F963-17 Toy Safety, Clause 4.3.5 Soluble Elements in Substrate Materials
PASS	CPSIA Section 101 & 16 CFR 1303, Total Lead in Paints and Surface Coatings
PASS	California Proposition 65, Total Lead in Paints and Surface Coatings
PASS	CPSIA Section 101, Total Lead in Substrate Materials
PASS	California Proposition 65, Total Lead in Substrate Materials
PASS	California Proposition 65, Phthalates (DBP, BBP, DEHP, DINP, DIDP, DnHP)
PASS	16 CFR 1307 Prohibition of Children’s Toys and Child Care Articles Containing Specified Phthalates (DBP, BBP, DEHP, DINP, DHEXP / DnHP, DCHP, DIBP, DPENP)
PASS	Canadian Toys Regulations SOR/2011-17 as Amended, Item 23 – Total Elements Screening in Paints and Surface Coatings
PASS	Canadian Toys Regulations SOR/2011-17 as Amended, Item 23 – Total Lead and Mercury in Paints and Surface Coatings
PASS	Canadian Toys Regulations SOR/2011-17 as Amended by SOR/2016-195 & SOR/2016-302, Item 27(3)(C) Total Elements Screening in Plastic Materials
PASS	CPSIA Section 106, Mandatory Toy Safety Standard ASTM F963-17, Mechanical Hazards 16 CFR 1500, Federal Hazardous Substances Act (FHSA), Mechanical Hazards
PASS	16 CFR 1500.44 and ASTM F963-17, Section 4.2, Flammability of Solids
PASS	CPSIA Section 103, Tracking Labels for Children’s Products [#]
PASS	Canadian Toy Regulations SOR/2011-17 as amended, Mechanical Hazards Requirements
PASS	Canadian Toy Regulations SOR/2011-17 as amended, Item 21 Celluloid or Cellulose Nitrate

Remark:

CPSIA Section 106 & ASTM F963-17 Toy Safety, Clause 4.3.5 Total Elements Screening in Paint and Similar Surface Coatings was not conducted as specimen mass found on single sample less than 10 milligrams.

Canadian Phthalates Regulations SOR/2016-188, Phthalates (DBP, BBP, DEHP, DnOP, DINP, DIDP) in Mouthable Vinyl Materials was not conducted as no vinyl material found on received sample.

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DETAILED RESULTS:

CPSIA Section 106 & ASTM F963-17 Toy Safety, Clause 4.3.5 Total Elements Screening in Substrate Materials

Test Method: ASTM F963-17 Clause 8.3.1

Analytical Method: Inductively Coupled Plasma-Optical Emission Spectrometry

Substrate Materials Other Than Modeling Clay

Specimen No.	5+6+7	8+9	10+11	12+13+14	---	Soluble Limit (ppm)
Test Item	Result (ppm)	Result (ppm)	Result (ppm)	Result (ppm)	Result (ppm)	
Total Antimony (Sb)	ND	ND	ND	ND	---	60
Total Arsenic (As)	ND	ND	ND	ND	---	25
Total Barium (Ba)	ND	ND	ND	ND	---	1000
Total Cadmium (Cd)	ND	ND	ND	ND	---	75
Total Chromium (Cr)	ND	ND	ND	ND	---	60
Total Lead (Pb)	ND	ND	ND	ND	---	90
Total Mercury (Hg)	ND	ND	ND	ND	---	60
Total Selenium (Se)	ND	ND	ND	ND	---	500
Conclusion	PASS	PASS	PASS	PASS	---	

Note:

ppm (Parts per million) = mg/kg (Milligrams per kilogram)

LT = Less than

ND = Not detected (Reporting Limit: Sb, As, Ba, Cd, Cr, Pb, Hg = 20ppm; Se = 50ppm)

Composite results are based on specimen of least mass resulting in highest potential concentration.

Remark:

The total heavy metals screening results of Specimen No. 3 and 4 exceeded the soluble heavy metal limits, therefore a separate soluble analysis was conducted.

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DETAILED RESULTS:

CPSIA Section 106 & ASTM F963-17 Toy Safety, Clause 4.3.5 Soluble Elements in Substrate Materials

Test Method: ASTM F963-17 Clause 8.3.5
 Analytical Method: Inductively Coupled Plasma-Mass Spectrometry

Substrate Materials Other than Modeling Clay

Specimen No.	3	4	---	---	---	Soluble Limit (ppm)
Test Item	Result (ppm)	Result (ppm)	Result (ppm)	Result (ppm)	Result (ppm)	
Soluble Antimony (Sb)	ND	ND	---	---	---	60
Soluble Arsenic (As)	ND	ND	---	---	---	25
Soluble Barium (Ba)	ND	ND	---	---	---	1000
Soluble Cadmium (Cd)	ND	ND	---	---	---	75
Soluble Chromium (Cr)	ND	ND	---	---	---	60
Soluble Lead (Pb)	ND	ND	---	---	---	90
Soluble Mercury (Hg)	ND	ND	---	---	---	60
Soluble Selenium (Se)	ND	ND	---	---	---	500
Conclusion	PASS	PASS	---	---	---	

Note:
 ppm (Parts per million) = mg/kg (Milligrams per kilogram)
 LT = Less than
 ND = Not detected (Reporting Limit = 2 ppm)

Remark:
 Test portion of Specimen No. 3 found on single sample was 90.4 mg.
 Test portion of Specimen No. 4 found on single sample was 51.1 mg.

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DETAILED RESULTS:

CPSIA Section 101 & 16 CFR 1303, Total Lead in Paints and Surface Coatings

Test Method: CPSC-CH-E-1003-09.1
Analytical Method: Inductively Coupled Plasma-Optical Emission Spectrometry

Specimen No.	1+2	---	---	---	---	Total Limit (ppm)
Test Item	Result (ppm)	Result (ppm)	Result (ppm)	Result (ppm)	Result (ppm)	
Total Lead (Pb)	ND	---	---	---	---	90
Conclusion	PASS	---	---	---	---	

Note:

ppm (Parts per million) = mg/kg (Milligrams per kilogram)

LT = Less than

ND = Not detected (Reporting Limit = 20 ppm)

Composite results are based on specimen of least mass resulting in highest potential concentration.

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DETAILED RESULTS:

California Proposition 65, Total Lead in Paints and Surface Coatings

Test Method: CPSC-CH-E-1003-09.1
Analytical Method: Inductively Coupled Plasma-Optical Emission Spectrometry

Specimen No.	1+2	---	---	---	---	Total Limit (ppm)
Test Item	Result (ppm)	Result (ppm)	Result (ppm)	Result (ppm)	Result (ppm)	
Total Lead (Pb)	ND	---	---	---	---	90
Conclusion	PASS	---	---	---	---	

Note:

ppm (Parts per million) = mg/kg (Milligrams per kilogram)

LT = Less than

ND = Not detected (Reporting Limit = 20 ppm)

Composite results are based on specimen of least mass resulting in highest potential concentration.

Remark:

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DETAILED RESULTS:

CPSIA Section 101, Total Lead in Substrate Materials

Test Method: CPSC-CH-E1001-08.3 (Metal), CPSC-CH-E1002-08.3 (Non-Metal)
Analytical Method: Inductively Coupled Plasma-Optical Emission Spectrometry

Specimen No.	5+6+7	8+9	10+11	12+13+14	15	Total Limit (ppm)
Test Item	Result (ppm)	Result (ppm)	Result (ppm)	Result (ppm)	Result (ppm)	
Total Lead (Pb)	ND	ND	ND	ND	ND	100
Conclusion	PASS	PASS	PASS	PASS	PASS	

Specimen No.	16	17	---	---	---	Total Limit (ppm)
Test Item	Result (ppm)	Result (ppm)	Result (ppm)	Result (ppm)	Result (ppm)	
Total Lead (Pb)	ND	ND	---	---	---	100
Conclusion	PASS	PASS	---	---	---	

Note:

ppm (Parts per million) = mg/kg (Milligrams per kilogram)

LT = Less than

ND = Not detected (Reporting Limit = 20 ppm)

Composite results are based on specimen of least mass resulting in highest potential concentration.

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DETAILED RESULTS:

California Proposition 65, Total Lead in Substrate Materials

Test Method: CPSC-CH-E1001-08.3 (Metal), CPSC-CH-E1002-08.3 (Non-Metal)

Analytical Method: Inductively Coupled Plasma-Optical Emission Spectrometry

Specimen No.	5+6+7	8+9	10+11	12+13+14	15	Total Limit (ppm)
Test Item	Result (ppm)	Result (ppm)	Result (ppm)	Result (ppm)	Result (ppm)	
Total Lead (Pb)	ND	ND	ND	ND	ND	100
Conclusion	PASS	PASS	PASS	PASS	PASS	

Specimen No.	16	17	---	---	---	Total Limit (ppm)
Test Item	Result (ppm)	Result (ppm)	Result (ppm)	Result (ppm)	Result (ppm)	
Total Lead (Pb)	ND	ND	---	---	---	100
Conclusion	PASS	PASS	---	---	---	

Note:

ppm (Parts per million) = mg/kg (Milligrams per kilogram)

LT = Less than

ND = Not detected (Reporting Limit = 20 ppm)

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DETAILED RESULTS:

California Proposition 65, Phthalates (DBP, BBP, DEHP, DINP, DIDP, DnHP)

Test Method: CPSC-CH-C1001-09.4
Analytical Method: Gas Chromatography with Mass Spectrometry

Specimen No.		1+2	5+6+7	8+9	10+11	Limit (mg/kg)
Test Item	CAS No.	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	
Dibutyl phthalate (DBP)	84-74-2	ND	ND	ND	ND	1000
Benzyl butyl phthalate (BBP)	85-68-7	ND	ND	ND	ND	1000
Di-(2-ethylhexyl) phthalate (DEHP)	117-81-7	ND	ND	ND	ND	1000
Diisononyl phthalate (DINP)	28553-12-0 68515-48-0	ND	ND	ND	ND	1000
Diisodecyl phthalate (DIDP)	26761-40-0 68515-49-1	ND	ND	ND	ND	1000
Di-n-hexyl phthalate (DnHP)	84-75-3	ND	ND	ND	ND	1000
Conclusion		PASS	PASS	PASS	PASS	

Note:

mg/kg (Milligrams per kilogram) = ppm (Parts per million) = 0.0001 % m/m (Percent by mass)

LT = Less than

ND = Not detected (Reporting Limit = 300 mg/kg)

Composite results are based on specimen of least mass resulting in highest potential concentration.

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DETAILED RESULTS:

California Proposition 65, Phthalates (DBP, BBP, DEHP, DINP, DIDP, DnHP)

Test Method: CPSC-CH-C1001-09.4
 Analytical Method: Gas Chromatography with Mass Spectrometry

Specimen No.		12+13+14	15	---	---	Limit (mg/kg)
Test Item	CAS No.	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	
Dibutyl phthalate (DBP)	84-74-2	ND	ND	---	---	1000
Benzyl butyl phthalate (BBP)	85-68-7	ND	ND	---	---	1000
Di-(2-ethylhexyl) phthalate (DEHP)	117-81-7	ND	ND	---	---	1000
Diisononyl phthalate (DINP)	28553-12-0 68515-48-0	ND	ND	---	---	1000
Diisodecyl phthalate (DIDP)	26761-40-0 68515-49-1	ND	ND	---	---	1000
Di-n-hexyl phthalate (DnHP)	84-75-3	ND	ND	---	---	1000
Conclusion		PASS	PASS	---	---	

Note:

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LT = Less than

ND = Not detected (Reporting Limit = 300 mg/kg)

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DETAILED RESULTS:

16 CFR 1307 Prohibition of Children’s Toys and Child Care Articles Containing Specified Phthalates (DBP, BBP, DEHP, DINP, DHEXP / DnHP, DCHP, DIBP, DPENP)

Test Method: CPSC-CH-C1001-09.4
 Analytical Method: Gas Chromatography with Mass Spectrometry

Specimen No.		1+2	5+6+7	8+9	10+11	Limit (mg/kg)
Test Item	CAS No.	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	
Dibutyl phthalate (DBP)	84-74-2	ND	ND	ND	ND	1000
Benzyl butyl phthalate (BBP)	85-68-7	ND	ND	ND	ND	1000
Di-(2-ethylhexyl) phthalate (DEHP)	117-81-7	ND	ND	ND	ND	1000
Diisononyl phthalate (DINP)	28553-12-0 68515-48-0	ND	ND	ND	ND	1000
Di-n-hexyl phthalate (DHEXP / DnHP)	84-75-3	ND	ND	ND	ND	1000
Dicyclohexyl phthalate (DCHP)	84-61-7	ND	ND	ND	ND	1000
Diisobutyl phthalate (DIBP)	84-69-5	ND	ND	ND	ND	1000
Di-n-pentyl phthalate (DPENP)	131-18-0	ND	ND	ND	ND	1000
Conclusion		PASS	PASS	PASS	PASS	

Note:

mg/kg (Milligrams per kilogram) = ppm (Parts per million) = 0.0001 % m/m (Percent by mass)

LT = Less than

ND = Not detected (Reporting Limit = 300 mg/kg)

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16 CFR 1307 Prohibition of Children’s Toys and Child Care Articles Containing Specified Phthalates (DBP, BBP, DEHP, DINP, DHEXP / DnHP, DCHP, DIBP, DPENP)

Test Method: CPSC-CH-C1001-09.4
Analytical Method: Gas Chromatography with Mass Spectrometry

Specimen No.		12+13+14	15	---	---	Limit (mg/kg)
Test Item	CAS No.	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	
Dibutyl phthalate (DBP)	84-74-2	ND	ND	---	---	1000
Benzyl butyl phthalate (BBP)	85-68-7	ND	ND	---	---	1000
Di-(2-ethylhexyl) phthalate (DEHP)	117-81-7	ND	ND	---	---	1000
Diisononyl phthalate (DINP)	28553-12-0 68515-48-0	ND	ND	---	---	1000
Di-n-hexyl phthalate (DHEXP / DnHP)	84-75-3	ND	ND	---	---	1000
Dicyclohexyl phthalate (DCHP)	84-61-7	ND	ND	---	---	1000
Diisobutyl phthalate (DIBP)	84-69-5	ND	ND	---	---	1000
Di-n-pentyl phthalate (DPENP)	131-18-0	ND	ND	---	---	1000
Conclusion		PASS	PASS	---	---	

Note:

mg/kg (Milligrams per kilogram) = ppm (Parts per million) = 0.0001 % m/m (Percent by mass)

LT = Less than

ND = Not detected (Reporting Limit = 300 mg/kg)

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DETAILED RESULTS:

**Canadian Toys Regulations SOR/2011-17 as Amended, Item 23 –
Total Elements Screening in Paints and Surface Coatings**

Test Method: ASTM F963-17 Clause 8.3.1
Analytical Method: Inductively Coupled Plasma-Optical Emission Spectrometry

Specimen No.	1+2	---	---	---	---	Leachable
Test Item	Result (ppm)	Result (ppm)	Result (ppm)	Result (ppm)	Result (ppm)	Limit (ppm)
Total Antimony (Sb)	230	---	---	---	---	1000
Total Arsenic (As)	ND	---	---	---	---	1000
Total Barium (Ba)	ND	---	---	---	---	1000
Total Cadmium (Cd)	ND	---	---	---	---	1000
Total Lead (Pb)	ND	---	---	---	---	90*
Total Mercury (Hg)	ND	---	---	---	---	10*
Total Selenium (Se)	ND	---	---	---	---	1000
Conclusion	PASS	---	---	---	---	

Note:

ppm (Parts per million) = mg/kg (Milligrams per kilogram)

LT = Less than

ND = Not detected (Reporting Limit: Pb, Hg = 10 ppm; Sb, As, Ba, Cd, Se = 50 ppm)

Composite results are based on specimen of least mass resulting in highest potential concentration.

Remark:

*Total limit

The results of total elements screening did not exceed the limits of leachable elements, therefore further analysis of leachable elements was not conducted.

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DETAILED RESULTS:

**Canadian Toys Regulations SOR/2011-17 as Amended, Item 23 –
Total Lead and Mercury in Paints and Surface Coatings**

Test Method: ASTM F963-17 Clause 8.3.1
Analytical Method: Inductively Coupled Plasma-Optical Emission Spectrometry

Specimen No.	1+2	---	---	---	---	Total Limit (ppm)
Test Item	Result (ppm)	Result (ppm)	Result (ppm)	Result (ppm)	Result (ppm)	
Total Lead (Pb)	ND	---	---	---	---	90
Total Mercury (Hg)	ND	---	---	---	---	10
Conclusion	PASS	---	---	---	---	

Note:

ppm (Parts per million) = mg/kg (Milligrams per kilogram)

LT = Less than

ND = Not detected (Reporting Limit = 10 ppm)

Composite results are based on specimen of least mass resulting in highest potential concentration.

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DETAILED RESULTS:

Canadian Toys Regulations SOR/2011-17 as Amended by SOR/2016-195 & SOR/2016-302, Item 27(3)(C) Total Elements Screening in Plastic Materials

Test Method: ASTM F963-17 Clause 8.3.1
Analytical Method: Inductively Coupled Plasma-Optical Emission Spectrometry

Specimen No.	3+4	5+6+7	8+9	10+11	12+13+14	Leachable
Test Item	Result (ppm)	Result (ppm)	Result (ppm)	Result (ppm)	Result (ppm)	Limit (ppm)
Total Antimony (Sb)	ND	ND	ND	ND	ND	1000
Total Arsenic (As)	ND	ND	ND	ND	ND	1000
Total Barium (Ba)	ND	ND	ND	ND	ND	1000
Total Cadmium (Cd)	ND	ND	ND	ND	ND	1000
Total Lead (Pb)	ND	ND	ND	ND	ND	90*
Total Mercury (Hg)	ND	ND	ND	ND	ND	10*
Total Selenium (Se)	ND	ND	ND	ND	ND	1000
Conclusion	PASS	PASS	PASS	PASS	PASS	

Note:

ppm (Parts per million) = mg/kg (Milligrams per kilogram)

LT = Less than

ND = Not detected (Reporting Limit: Pb, Hg = 10 ppm; Sb, As, Ba, Cd, Se = 50 ppm)

Composite results are based on specimen of least mass resulting in highest potential concentration.

Remark:

*Total limit

The results of total elements screening did not exceed the limits of leachable elements, therefore further analysis of leachable elements was not conducted.

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DETAILED RESULTS:

**CPSIA Section 106, Mandatory Toy Safety Standard ASTM F963-17, Mechanical Hazards
16 CFR 1500, Federal Hazardous Substances Act (FHSA), Mechanical Hazards**

Mechanical hazards evaluated as described in 16 CFR 1500.51-1500.53 and ASTM F963-17, as applicable.

Test	Observation	Conclusion
Impact	No Sharp Edge or Sharp Point	PASS
Torque	No Sharp Edge or Sharp Point	PASS
Tension	No Sharp Edge or Sharp Point	PASS

Other Applicable ASTM F963-17 Sections

Section	Test	Conclusion
4.1	Material Quality	PASS
4.7	Accessible Edges	PASS
4.9	Accessible Points	PASS
4.11	Nails and Fasteners	PASS
4.38	Magnets	PASS

16 CFR 1500.44 and ASTM F963-17, Section 4.2, Flammability of Solids

Test	Observation	Conclusion
Flammability of Solids	The burn rate is less than 0.1 in/sec.	PASS

CPSIA Section 103, Tracking Labels for Children’s Products[#]

Requirement	Observation	Conclusion
Manufacturer or private labeler listed, location & date of manufacture, including batch, run number and/or other identifying characteristics	Information was present.	PASS

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DETAILED RESULTS:

Canadian Toy Regulations SOR/2011-17 as amended, Mechanical Hazards Requirements

Test	Observation	Conclusion
Impact	No Sharp Edge or Sharp Point	PASS
Push/Pull	No Sharp Edge or Sharp Point	PASS

Section	Requirement	Conclusion
4	Flexible Film Bags	PASS
8	Metal Edges	PASS
10	Plastic Edges	PASS
13	Fasteners	PASS
43	Magnetic toys	PASS

Canadian Toy Regulations SOR/2011-17 as amended, Item 21 Celluloid or Cellulose Nitrate

(Method: Visual Observation)

Test	Observation	Conclusion
Cellulose Nitrate	No visual signs of Cellulose Nitrate.	PASS

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SPECIMEN DESCRIPTION:

Specimen No.	Specimen Description	Location
1	White coating	On tracking information (Black/White style)
2	Black coating	On tracking information (all styles except Black/White style)
3	Black textile	Strap (all styles)
4	Dull black textile	String (all styles)
5	White soft plastic	Button (all styles except White/Blue & White/Black styles)
6	Blue soft plastic	Button (White/Blue style)
7	Black soft plastic	Button (White/Black style)
8	White plastic	Joy pad/ roller/ gear/ switch (all styles except White/Blue & White/Black styles); case (White/Blue, White/Black & White/White styles)
9	Blue plastic	Joy pad/ roller/ gear/ switch (White/Blue style); case (Navy/White style)
10	Black plastic	Joy pad/ roller/ gear/ switch (White/Black style); case (Black/White style)
11	Red plastic	Case (Red/White style)
12	Green plastic	Case (Lime/White style)
13	Orange plastic	Case (Orange/White style)
14	Dull black plastic	Coupler of strap (all styles)
15	Clear plastic	String (all styles)
16	Silvery metal	Ball (all styles)
17	Dull silvery metal	Joy stick (all styles)

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DATE CODE PHOTO:



P01



P02

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SAMPLE PHOTO:



-End Report-

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