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TEST REPORT

Number : TWNH00097338
Issue Date : Mar 28, 2023

Applicant: Qbi Globe INC.
10F-3, No. 530, Yingcai Rd., West Dist.
Taichung City 40360, Taiwan (R.O.C.)

Sample Description:
One (1) Group of Submitted Samples Said To Be :

Item Name	:	Stunt Arena: Action-Packed STEM Track
Item No.	:	116
Quantity	:	1 Group
Vendor/Manufacturer	:	U.JERRY'S CO., LTD.
Country of Origin	:	Taiwan
Goods Exported To	:	U.S.A, Europe, Japan, Korea
Date Sample Received	:	Mar 01, 2023
Date Test Started	:	Mar 01, 2023

Test Conducted:
As requested by the applicant, for details please refer to attached pages.

Conclusion:
Please see page two.

Remarks:
#1 = Results were transferred from report No. TWNH00096527 dated Dec 13, 2022.

Authorized By:
On behalf of Intertek Testing Services Taiwan Limited

Matt Wang
Director

Signed by:

Thomas Chou
Manager

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Conclusion:

Tested sample	Standard	Result
Submitted Samples	Mechanical and physical properties — As per European standard on safety of toys EN 71 part 1: 2014 + A1 : 2018	Pass
	Flammability test — As per European standard on safety of toys EN 71 part 2 : 2011 + A1 : 2014	Pass
Tested Components of Submitted Samples	19 Toxic Element Migration Test — As per European standard on safety of toys EN 71-3: 2019+A1:2021	Pass
	Phthalates Content — As per annex XVII items 51 and items 52 of the REACH regulation (EC) No. 1907/2006 and its amendment (EU) 2018/2005	Pass
	Total Cadmium (Cd) Content — As per annex XVII item 23 of the REACH regulation (EC) No. 1907/2006	Pass

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1. Mechanical and Physical Properties

As per European standard on safety of toys EN 71 part 1:2014 + A1 : 2018

Appropriate age group for testing : For ages over 3 years

Clause	Testing item	Assessment
4*	General requirements	P
5	Toys intended for children under 36 months	NA
6	Packaging	P
7*	Warnings, markings and instructions for use	P

Remarks : P = Pass ; NA = Not applicable
* = The following subclauses of the standard are found applicable :

1)	4.1	Material cleanliness
2)	4.7	Edges
3)	4.8	Points and metallic, wires
4)	4.20	Acoustics
5)	4.23	Magnets
6)	7.1	General
7)	7.2	Toys not intended for children under 36 months

2. Flammability Test

As per European standard on safety of toys EN 71 part 2 : 2011+ A1 : 2014.

Clause	Testing item	Assessment
4.1	General	
	– Cellulose nitrate	P
	– Pile surface	NA
	– Flammable gas and liquid	NA
4.2	Toys to be worn on the head (5.2/5.3/5.4)	NA
4.3	Toy disguise costumes and toys intended to be worn by a child in play (5.4)	NA
4.4	Toys intended to be entered by a child (5.4)	NA
4.5	Soft-filled toys(5.5)	NA

Remarks : P = Pass
NA = Not applicable

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3. 19 Toxic Element Migration Test

As per EN 71-3:2019+A1:2021 and followed by Inductively Coupled Plasma-Optical Emission Spectrometer (ICP-OES) and Inductively Coupled Plasma Mass Spectrometer (ICP-MS).
Further confirmation test was determined by High Performance Liquid Chromatography with Diode Array Detection (HPLC-DAD), Liquid Chromatography /Inductively Coupled Plasma Mass Spectrometer (LC/ICP-MS), and Gas Chromatography-Mass Spectrometer (GC-MS) when necessary.

Category III: Scraped-off toy material

Element	Result (mg/kg)				Detection limit (mg/kg)	Limit (mg/kg)
	(1)(#1)	(2)(#1)	(3)	(4)		
Aluminium (Al)	ND	ND	ND	ND	300	28130
Antimony (Sb)	ND	ND	ND	ND	10	560
Arsenic (As)	ND	ND	ND	ND	10	47
Barium (Ba)	ND	ND	ND	ND	10	18750
Boron (B)	ND	ND	ND	ND	50	15000
Cadmium (Cd)	ND	ND	ND	ND	5	17
Chromium (III) (Cr(III))	ND	ND	ND	ND	10	460
Chromium (VI) (Cr(VI))	ND	ND	ND	ND	0.025	0.053
Cobalt (Co)	ND	ND	ND	ND	10	130
Copper (Cu)	ND	ND	ND	ND	10	7700
Lead (Pb)	ND	ND	ND	ND	10	23
Manganese (Mn)	ND	ND	ND	ND	10	15000
Mercury (Hg)	ND	ND	ND	ND	10	94
Nickel (Ni)	ND	ND	ND	ND	10	930
Selenium (Se)	ND	ND	ND	ND	10	460
Strontium (Sr)	ND	ND	ND	ND	100	56000
Tin (Sn)	ND	ND	ND	ND	10	180000
Organic tin	ND	ND	ND	ND	3.0	12
Zinc (Zn)	ND	ND	ND	ND	100	46000

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3. 19 Toxic Element Migration Test

Element	Result (mg/kg)				Detection limit (mg/kg)	Limit (mg/kg)
	(5)	(6)	(7)	(8)		
Aluminium (Al)	ND	ND	ND	ND	300	28130
Antimony (Sb)	ND	ND	ND	ND	10	560
Arsenic (As)	ND	ND	ND	ND	10	47
Barium (Ba)	ND	ND	ND	ND	10	18750
Boron (B)	ND	ND	ND	ND	50	15000
Cadmium (Cd)	ND	ND	ND	ND	5	17
Chromium (III) (Cr(III))	ND	ND	ND	ND	10	460
Chromium (VI) (Cr(VI))	ND	ND	ND	ND	0.025	0.053
Cobalt (Co)	ND	ND	ND	ND	10	130
Copper (Cu)	ND	ND	ND	ND	10	7700
Lead (Pb)	ND	ND	ND	ND	10	23
Manganese (Mn)	ND	ND	ND	ND	10	15000
Mercury (Hg)	ND	ND	ND	ND	10	94
Nickel (Ni)	ND	ND	ND	ND	10	930
Selenium (Se)	ND	ND	ND	ND	10	460
Strontium (Sr)	ND	ND	ND	ND	100	56000
Tin (Sn)	ND	ND	ND	ND	10	180000
Organic tin	ND	ND	ND	ND	3.0	12
Zinc (Zn)	ND	ND	ND	ND	100	46000

Element	Result (mg/kg)				Detection limit (mg/kg)	Limit (mg/kg)
	(9)	(10)	(11)	(12)		
Aluminium (Al)	ND	ND	ND	ND	300	28130
Antimony (Sb)	ND	ND	ND	ND	10	560
Arsenic (As)	ND	ND	ND	ND	10	47
Barium (Ba)	ND	ND	ND	ND	10	18750
Boron (B)	ND	ND	ND	ND	50	15000
Cadmium (Cd)	ND	ND	ND	ND	5	17
Chromium (III) (Cr(III))	ND	ND	ND	ND	10	460
Chromium (VI) (Cr(VI))	ND	ND	ND	ND	0.025	0.053
Cobalt (Co)	ND	ND	ND	ND	10	130
Copper (Cu)	ND	ND	ND	ND	10	7700
Lead (Pb)	ND	ND	ND	ND	10	23
Manganese (Mn)	ND	ND	ND	ND	10	15000
Mercury (Hg)	ND	ND	ND	ND	10	94
Nickel (Ni)	ND	ND	ND	ND	10	930
Selenium (Se)	ND	ND	ND	ND	10	460
Strontium (Sr)	ND	ND	ND	ND	100	56000
Tin (Sn)	ND	ND	ND	ND	10	180000
Organic tin	ND	ND	ND	ND	3.0	12
Zinc (Zn)	ND	ND	ND	ND	100	46000

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3. 19 Toxic Element Migration Test

Element	Result (mg/kg)				Detection limit (mg/kg)	Limit (mg/kg)
	(13)	(14)	(15)	(16)		
Aluminium (Al)	ND	ND	ND	ND	300	28130
Antimony (Sb)	ND	ND	ND	ND	10	560
Arsenic (As)	ND	ND	ND	ND	10	47
Barium (Ba)	ND	ND	ND	374	10	18750
Boron (B)	ND	ND	ND	ND	50	15000
Cadmium (Cd)	ND	ND	ND	ND	5	17
Chromium (III) (Cr(III))	ND	ND	ND	ND	10	460
Chromium (VI) (Cr(VI))	ND	ND	ND	ND	0.025	0.053
Cobalt (Co)	ND	ND	ND	ND	10	130
Copper (Cu)	ND	ND	ND	ND	10	7700
Lead (Pb)	ND	ND	ND	ND	10	23
Manganese (Mn)	ND	ND	ND	ND	10	15000
Mercury (Hg)	ND	ND	ND	ND	10	94
Nickel (Ni)	ND	ND	ND	ND	10	930
Selenium (Se)	ND	ND	ND	ND	10	460
Strontium (Sr)	ND	ND	ND	ND	100	56000
Tin (Sn)	ND	ND	ND	ND	10	180000
Organic tin	ND	ND	ND	ND	3.0	12
Zinc (Zn)	ND	ND	ND	ND	100	46000

Element	Result (mg/kg)				Detection limit (mg/kg)	Limit (mg/kg)
	(17)(#1)	(18)	(19)	(20)		
Aluminium (Al)	ND	ND	ND	ND	300	28130
Antimony (Sb)	ND	ND	ND	ND	10	560
Arsenic (As)	ND	ND	ND	ND	10	47
Barium (Ba)	ND	ND	ND	ND	10	18750
Boron (B)	ND	ND	ND	ND	50	15000
Cadmium (Cd)	ND	ND	ND	ND	5	17
Chromium (III) (Cr(III))	ND	ND	ND	ND	10	460
Chromium (VI) (Cr(VI))	ND	ND	ND	ND	0.025	0.053
Cobalt (Co)	ND	ND	ND	ND	10	130
Copper (Cu)	ND	ND	ND	ND	10	7700
Lead (Pb)	ND	ND	ND	ND	10	23
Manganese (Mn)	ND	ND	ND	ND	10	15000
Mercury (Hg)	ND	ND	ND	ND	10	94
Nickel (Ni)	ND	ND	ND	ND	10	930
Selenium (Se)	ND	ND	ND	ND	10	460
Strontium (Sr)	ND	ND	ND	ND	100	56000
Tin (Sn)	ND	ND	ND	ND	10	180000
Organic tin	ND	ND	ND	ND	3.0	12
Zinc (Zn)	ND	ND	ND	ND	100	46000

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3. 19 Toxic Element Migration Test

Element	Result (mg/kg)				Detection limit (mg/kg)	Limit (mg/kg)
	(21)(#1)	(22)(#1)	(23)(#1)	(24)(#1)		
Aluminium (Al)	ND	ND	ND	ND	300	28130
Antimony (Sb)	ND	ND	ND	ND	10	560
Arsenic (As)	ND	ND	ND	ND	10	47
Barium (Ba)	ND	ND	ND	ND	10	18750
Boron (B)	ND	ND	ND	ND	50	15000
Cadmium (Cd)	ND	ND	ND	ND	5	17
Chromium (III) (Cr(III))	ND	ND	ND	ND	10	460
Chromium (VI) (Cr(VI))	ND	ND	ND	ND	0.025	0.053
Cobalt (Co)	ND	ND	ND	ND	10	130
Copper (Cu)	ND	ND	ND	ND	10	7700
Lead (Pb)	ND	ND	ND	ND	10	23
Manganese (Mn)	ND	ND	ND	248	10	15000
Mercury (Hg)	ND	ND	ND	ND	10	94
Nickel (Ni)	ND	ND	ND	ND	10	930
Selenium (Se)	ND	ND	ND	ND	10	460
Strontium (Sr)	ND	ND	ND	ND	100	56000
Tin (Sn)	ND	ND	ND	ND	10	180000
Organic tin	ND	ND	11.7	ND	3.0	12
Zinc (Zn)	ND	ND	ND	ND	100	46000

Element	Result (mg/kg)		Detection limit (mg/kg)	Limit (mg/kg)
	(25)(#1)	(27)(#1)		
Aluminium (Al)	ND	ND	300	28130
Antimony (Sb)	ND	ND	10	560
Arsenic (As)	ND	ND	10	47
Barium (Ba)	ND	ND	10	18750
Boron (B)	ND	ND	50	15000
Cadmium (Cd)	ND	ND	5	17
Chromium (III) (Cr(III))	ND	ND	10	460
Chromium (VI) (Cr(VI))	ND	ND	0.025	0.053
Cobalt (Co)	ND	ND	10	130
Copper (Cu)	ND	ND	10	7700
Lead (Pb)	ND	ND	10	23
Manganese (Mn)	ND	24	10	15000
Mercury (Hg)	ND	ND	10	94
Nickel (Ni)	ND	ND	10	930
Selenium (Se)	ND	ND	10	460
Strontium (Sr)	ND	ND	100	56000
Tin (Sn)	ND	ND	10	180000
Organic tin	5.4	ND	3.0	12
Zinc (Zn)	ND	ND	100	46000

Remarks: ND = Not detected
- Unless test result was marked with "Δ", organic tin content was derived from migration tin (Sn) content.
- According to the annex F to EN 71-3: 2019+A1:2021, the content of chromium (III) from the migration solution was calculated through the formula: chromium (III) = total chromium – chromium(VI).

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Test Conducted

4. Phthalates Content

By solvent extraction and determined by Gas Chromatography-Mass Spectrometer (GC-MS).

I. Entry 51 of Annex XVII to Regulation (EC) No 1907/2006:

Compound	Result (%) (1/9)	(2/3/8)	(4/5/6)	(7/11/14)	(10/12/17)	Limit (%)
Diethyl hexyl phthalate (DEHP)	ND	ND	ND	ND	ND	0.1
Dibutyl phthalate (DBP)	ND	ND	ND	ND	ND	0.1
Benzyl butyl phthalate (BBP)	ND	ND	ND	ND	ND	0.1
Diisobutyl phthalate (DIBP)	ND	ND	ND	ND	ND	0.1
Sum of DEHP, DBP, BBP & DIBP	ND	ND	ND	ND	ND	0.1

Compound	Result (%) (13)	(15/18)	(16)	(19)	(20/21)	Limit (%)
Diethyl hexyl phthalate (DEHP)	ND	ND	ND	ND	ND	0.1
Dibutyl phthalate (DBP)	ND	ND	ND	ND	ND	0.1
Benzyl butyl phthalate (BBP)	ND	ND	ND	ND	ND	0.1
Diisobutyl phthalate (DIBP)	ND	ND	ND	ND	ND	0.1
Sum of DEHP, DBP, BBP & DIBP	ND	ND	ND	ND	ND	0.1

Compound	Result (%) (22)	(23)(#1)	(24)(#1)	(25)	(26)(#1)	Limit (%)
Diethyl hexyl phthalate (DEHP)	ND	ND	ND	ND	ND	0.1
Dibutyl phthalate (DBP)	ND	ND	ND	ND	ND	0.1
Benzyl butyl phthalate (BBP)	ND	ND	ND	ND	ND	0.1
Diisobutyl phthalate (DIBP)	ND	ND	ND	ND	ND	0.1
Sum of DEHP, DBP, BBP & DIBP	ND	ND	ND	ND	ND	0.1

II. Entry 52 of Annex XVII to Regulation (EC) No 1907/2006:

Compound	Result (%) (1/9)	(2/3/8)	(4/5/6)	(7/11/14)	(10/12/17)	Limit (%)
Di-(iso-nonyl) phthalate (DINP)	ND	ND	ND	ND	ND	--
Di-(Iso-decyl) phthalate (DIDP)	ND	ND	ND	ND	ND	--
Di-(n-octyl) phthalate (DNOP)	ND	ND	ND	ND	ND	--
Sum of DINP, DIDP & DNOP	ND	ND	ND	ND	ND	0.1

Compound	Result (%) (13)	(15/18)	(16)	(19)	(20/21)	Limit (%)
Di-(iso-nonyl) phthalate (DINP)	ND	ND	ND	ND	ND	--
Di-(Iso-decyl) phthalate (DIDP)	ND	ND	ND	ND	ND	--
Di-(n-octyl) phthalate (DNOP)	ND	ND	ND	ND	ND	--
Sum of DINP, DIDP & DNOP	ND	ND	ND	ND	ND	0.1

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4. Phthalates Content

II. Entry 52 of Annex XVII to Regulation (EC) No 1907/2006:

Compound	Result (%) (22)	(23)(#1)	(24)(#1)	(25)	(26)(#1)	Limit (%)
Di-(iso-nonyl) phthalate (DINP)	ND	ND	ND	ND	ND	--
Di-(Iso-decyl) phthalate (DIDP)	ND	ND	ND	ND	ND	--
Di-(n-octyl) phthalate (DNOP)	ND	ND	ND	ND	ND	--
Sum of DINP, DIDP & DNOP	ND	ND	ND	ND	ND	0.1

Remarks: % = Percentage based on weight of tested sample
ND = Not detected
Detection limit = 0.005% (for each compound)
The above limits are quoted from Annex XVII Items 51 and Items 52 of the REACH regulation (EC) No. 1907/2006 and its amendment (EU) 2018/2005.

5. Total Cadmium (Cd) Content

Acid digestion method was used and total cadmium content was determined by Inductively Coupled Plasma-Optical Emission Spectrometer (ICP-OES).

Tested Component	Result (ppm)	Limit (ppm)
(1/9)	ND	100
(2/3/8)	ND	100
(4/5/6)	ND	100
(7/11/14)	ND	100
(10/12/17)	ND	100
(13)	ND	1000
(15/18)	ND	100
(16)	ND	1000
(19)	ND	100
(20/21)	ND	100
(22)	ND	100
(23)(#1)	ND	100
(24)(#1)	ND	1000
(25)	ND	1000
(26)(#1)	ND	1000

Limit:
Not detected for cadmium plating
100 ppm for all plastic materials, paint contain less than 10% zinc, brazing fillers & metal parts of jewelry
1000 ppm for recovered PVC, coatings & paint contain greater than 10% zinc

Remarks: ppm = Parts per million based on weight of tested sample = mg/kg
ND = Not detected
Detection limit = 5 ppm
Above limit was quoted according to annex XVII items 23 of the REACH regulation (EC) No. 1907/2006.

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Tested Components:
(1) White plastic frame
(2) Light blue plastic block
(3) Purple plastic block
(4) Light orange plastic block
(5) Green plastic block
(6) Blue plastic block
(7) Red plastic block
(8) Yellow plastic block
(9) White plastic block
(10) Light green plastic block
(11) Grass green plastic block
(12) Light brown plastic block
(13) White coating (#2)
(14) Teal blue plastic block
(15) Orange plastic block
(16) Grey coating (#2)
(17) Off-white plastic part
(18) Blue plastic car
(19) Red plastic car
(20) Grey plastic base
(21) Black plastic tire
(22) Black soft plastic tire
(23) Colorful paper cover with film
(24) Black coating on coil
(25) Lacquer on cover (#3)
(26) Colorful coating on page
(27) White paper page with colorful coating

Remarks: #2 = As applicant's request, the alternative paint was dried at 105 ℃ for 4 hours before test.
#3 = As applicant's request, the alternative paint was dried by UV lamp.

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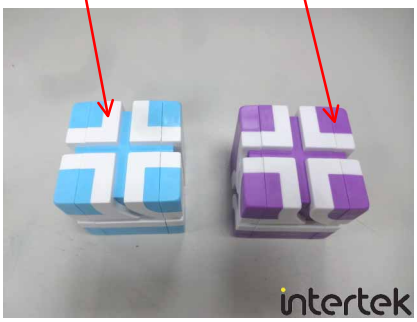
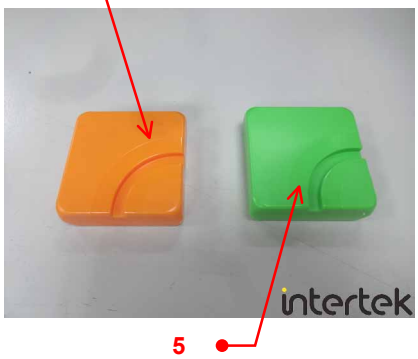
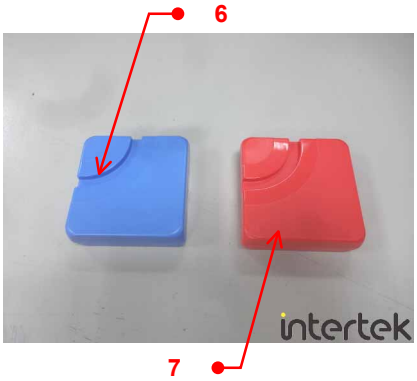
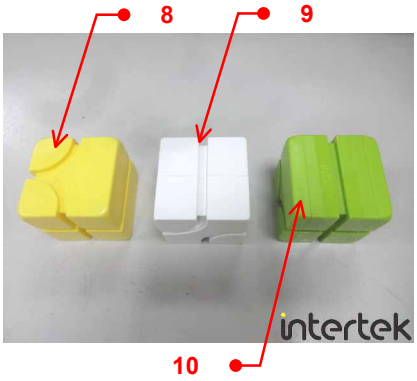
Sample photo:

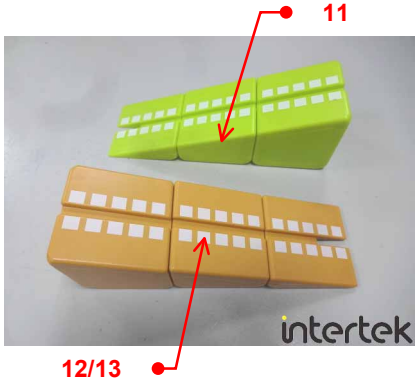
TWNH00097338

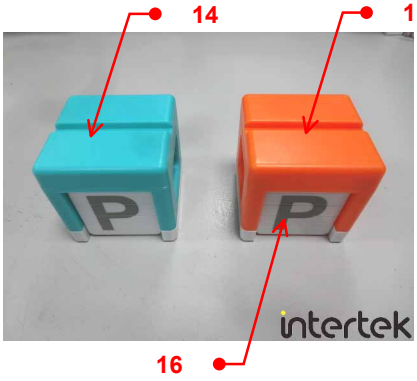


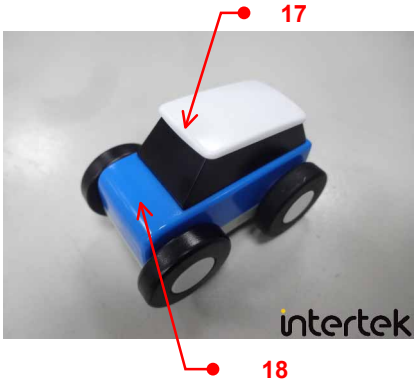












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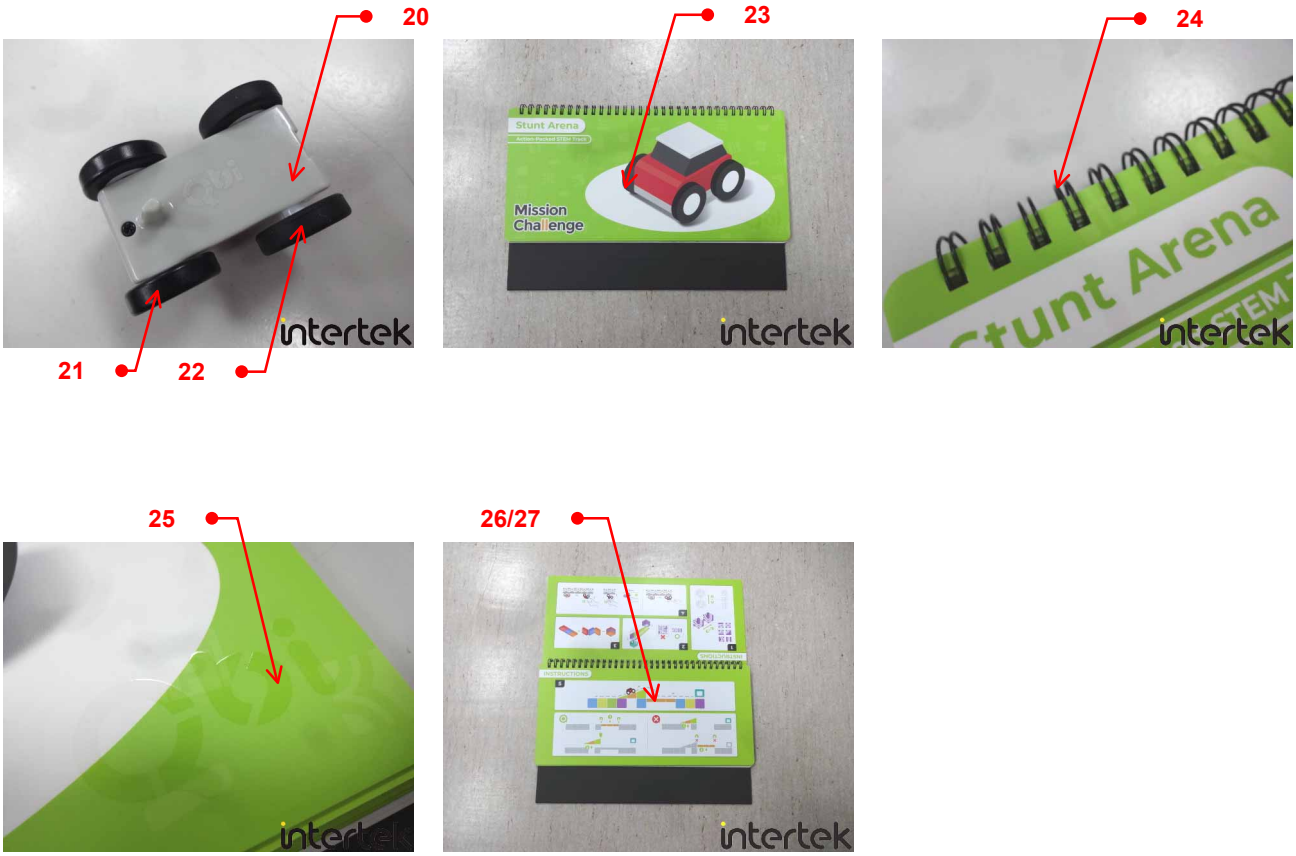
TEST REPORT

Number : TWNH00097338

Sample photo:



End of Report

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