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中国认可
国际互认
检测
TESTING
CNAS L9713

Test Report

No.: W2404717

Date: 2024-04-29

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Applicant : ETASTRA TOYS FACTORY

Address : CHENGHAI DISTRICT, SHANTOU CITY, GUANGDONG PROVINCE, CHINA

Sample Description:

Name of Product / Item

: toy series

Item No.

: YDX101, YDX102, YDX103, YDX104, YDX105, YDX106, YDX107, YDX108, YDX109, YDX110, YDX111, YDX112, YDX201, YDX202, YDX203, YDX204, YDX205, YDX206, YDX207, YDX208, YDX209, YDX210, YDX301, YDX302, YDX303, YDX304, YDX305, YDX306, YDX307, YDX308, YDX309, YDX310, YDX401, YDX402, YDX403, YDX404, YDX405, YDX406, YDX407, YDX408, YDX409, YDX410, YDX001, YDX002, YDX003, YDX004, YDX005, YDX006, YDX007, YDX008, YDX009, YDX010, YDX011, YDX012, YDX013, YDX014, YDX015, YDX016, YDX017, YDX018, YDX019, YDX020, YDX021, YDX022, YDX023, YDX024, YDX025, YDX026, YDX027, YDX028, YDX029, YDX030, YDX031, YDX032, YDX033, YDX034, YDX035, YDX036, YDX037, YDX038

Labeled Age Grading

: 3+, 3+ AGES

Requested Age Grading

: 3+

Above sample information was submitted and/or identified by client

Quantity of Sample

: 22 sets

Other Information

: WJ20240418015

Age Group Assessed As Per Age Guideline

: Over 3 years

Age Group Applied in Testing

: Over 3 years

Sample Receiving Date

: 2024-04-19

Sample Resubmitted Date

: 2024-04-23, 2024-04-26

Testing Period

: 2024-04-19 TO 2024-04-29

Power Source

: 3 X 1.5V AAA

Signed for and on behalf of
Guangdong Vanjust Testing Technology
Co., Ltd

Nancy

Nancy Wang
Toy Laboratory Manager



scan to see the report

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This document cannot be reproduced except in full, without prior approval of our laboratory. Our report includes all of the tests requested by you and the results thereof based upon the information that you provided to us. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested.



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TEST REQUESTED

Standard of Consumer Safety Specification for Toy Safety :

- ASTM F963-23 : Physical and Mechanical Tests
- ASTM F963-23 : Clause 4.2 Flammability Test
- ASTM F963-23 : Clause 4.3.5 Heavy elements
- ASTM F963-23 : Clause 4.3.8 Phthalates
- ASTM F963-23 : Clause 4.25 Battery-Operated Toys

Code of Federal Regulations, Title 16, Chapter II-Consumer Product Safety Commission

- Mechanical & Physical test
- Part 1500.44 Method for determining extremely flammable and flammable solids
- Part 1303 –Ban of lead-containing paint and certain consumer products bearing lead-containing paint

CONCLUSION

PASS

PASS

PASS

PASS

PASS

PASS

PASS

PASS

SELECTED TEST(S) AS REQUESTED BY THE APPLICANT, PLEASE REFER TO THE FOLLOWING PAGE(S) FOR DETAILS



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ASTM F963 - 23 Standard Consumer Safety Specification for Toy Safety

As specified in ASTM F963-23 Standard Consumer Safety Specification for Toys Safety.

<u>Clause</u>	<u>Description</u>	<u>Assessment</u>
4	<u>Safety Requirements</u>	
4.1	Material Quality	Pass
4.2	Flammability Test	Pass Refer to Appendix 1 for details
4.3	Toxicology	
4.3.5	Heavy Elements	
4.3.5.1	Heavy Elements in Paint/Similar Surface Coating Materials on the tested specimen(s)	Pass Refer to Appendix 2 for details
4.3.5.2	Heavy Elements in Substrate Materials on the tested specimen(s)	Pass Refer to Appendix 2 for details
4.3.8	Phthalates Toys	Pass Refer to Appendix 3 for details
4.5	Sound-producing Toys	Pass
4.6	Small Objects	
4.6.3	Toys and games that are intended for use by children who at least three years old but less than six years old	Pass
4.7	Accessible Edges	
4.7.1	Accessible sharp edges of metal or glass	Pass
4.7.4	Edges on molded toys	Pass
4.8	Projections	Pass
4.9	Accessible Points	
4.9.1	Accessible Sharp Points	Pass



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<u>Clause</u>	<u>Description</u>	<u>Assessment</u>
4.11	Nails & Fasteners	Pass
4.12	Plastic Film	Pass
4.13	Folding Mechanisms & Hinges	
4.13.2	Hinge-Line Clearance	N/A
4.18	Holes, Clearance & Accessibility of Mechanisms	
4.18.1	Accessible Clearances for Moveable Segments	Pass
4.18.4	Inaccessibility of Mechanisms	Pass
4.21	Projectile Toys	
4.21.3	Projectile Toys without Stored Energy	Pass
4.25	Battery-Operated Toys	Pass Refer to Appendix 4 for details
4.33	Marbles	Pass
4.34	Balls	
4.34.2	Toys intended for children at least 3 years old but less than 8 years of age	Pass
5.	<u>Safety Labeling Requirements</u>	
5.1	Federal Government Requirements	Pass
5.1.2	Tracking label	Pass
5.2	Age Grading Labeling	Pass
5.3	Safety Labeling Requirements	Pass
5.11	Small Objects, Small Balls, Marbles, and Balloons	Pass
5.15	Promotional Materials	Pass
6.	<u>Instructional Literature</u>	
6.1	Definition and Description	Pass
6.5	Battery-Operated Toys	Pass
7.	<u>Producer's Markings</u>	



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Clause	Description	Assessment
7.1	Producer's Markings	Pass
8.	Test Method	
8.5	Normal Use Testing	Pass
8.6	Abuse Test	Pass
8.7	Impact Test	Pass
8.8	Torque Test	Pass
8.9	Tension Test	Pass
8.10	Compression Test	Pass

Note:

- Only applicable clauses was/were shown.



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Appendix 1:

Flammability Test (Clause 4.2)

A5. Flammability Testing procedure for Solids and Soft Toys

<u>Sample</u>	<u>Burning Rate (inch/sec)</u>	<u>Limit (inch/sec)</u>
<u>Car series</u>	<u>DNI</u>	0.1
<u>Magic cube</u>	<u>DNI</u>	0.1
<u>Marble run</u>	<u>DNI</u>	0.1

Requirement

<u>Classification:</u>	<u>Acceptable Criteria</u>
Solid and Soft goods	DNI/ IBE Burning Rate $\leq$ 0.1 in/sec.

* The submitted sample(s) was/were tested, the above result only showed the most severe burn rate of the sample(s).

- DNI = Did Not Ignite
- IBE = Ignite But Self-Extinguished
- Ave. = Average



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Appendix 2:

ASTM F963-23 Standard Consumer Safety Specification for Toy Safety

▼ Heavy elements test - Total Lead content

Method: ASTM F963-23 Clause 8.3

The item(s) was/were analyzed by ICP-OES.

Paint and similar surface coating materials:

<u>Tested Item(s)</u>	<u>Result</u> (mg/kg)	<u>MDL</u> (mg/kg)	<u>Limit</u> (mg/kg)
	5		
Total Lead (Pb)	N.D.	5	90

Toy substrate materials:

<u>Tested Item(s)</u>	<u>Result</u> (mg/kg)				<u>MDL</u> (mg/kg)	<u>Limit</u> (mg/kg)
	1	2	3	4		
Total Lead (Pb)	N.D.	N.D.	N.D.	N.D.	5	100

Specimen Description:

- 1 blue plastic
- 2 red plastic
- 3 white plastic
- 4 black plastic
- 5 Black wet paint (Sample Resubmitted Date: 2024-04-26)

Note:

- MDL = Method Detection Limit
- N.D. = Not Detected (<MDL)
- mg/kg = ppm = parts per million



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▼ Heavy elements test – Migration of certain elements

Method: ASTM F963-23 Clause 8.3

The item(s) was/were analyzed by ICP-OES.

Surface Coatings and Substrates Other than Modeling Clay Included as Part of a Toy:

Tested Item(s)	Result (mg/kg)					MDL (mg/kg)	Limit (mg/kg)
	6	7	8	9	10		
Soluble Antimony (Sb)	N.D.	N.D.	N.D.	N.D.	N.D.	5	60
Soluble Arsenic (As)	N.D.	N.D.	N.D.	N.D.	N.D.	2.5	25
Soluble Barium (Ba)	N.D.	N.D.	N.D.	N.D.	N.D.	5	1000
Soluble Cadmium (Cd)	N.D.	N.D.	N.D.	N.D.	N.D.	5	75
Soluble Chromium (Cr)	N.D.	N.D.	N.D.	N.D.	N.D.	2.5	60
Soluble Lead (Pb)	N.D.	N.D.	N.D.	N.D.	N.D.	5	90
Soluble Mercury (Hg)	N.D.	N.D.	N.D.	N.D.	N.D.	2.5	60
Soluble Selenium (Se)	N.D.	N.D.	N.D.	N.D.	N.D.	5	500

Specimen Description:

- 6 blue plastic
- 7 red plastic
- 8 white plastic
- 9 black plastic
- 10 black coating (sample weight: 91.5mg)

Note:

- MDL = Method Detection Limit
- N.D. = Not Detected (<MDL)
- mg/kg = ppm = parts per million
- Results shown of soluble elements are of adjusted analytical results by subtracting analytical Correction factor (excluding special soluble Cadmium result).
- Filter paper was used instead of 0.45µm membrane filter in lab testing.
- Where the test portion has a mass of between 10mg and 100mg, the quantity of the appropriate elements shall be calculated as if 100mg of the test portion had been used.



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Appendix 3:

▼ Phthalate Content

Method: CPSC-CH-C1001-09.4

The item(s) was/were analyzed by GC-MS.

Tested Item(s)	Result (mg/kg)		MDL (mg/kg)	Limit (mg/kg)
	1+2+3	4+5+6		
Di-2-ethylhexyl Phthalate (DEHP)	N.D.	N.D.	50	1000
Dibutyl Phthalate (DBP)	N.D.	N.D.	50	1000
Benzylbutyl Phthalate (BBP)	N.D.	N.D.	50	1000
Diisononyl Phthalate (DINP)	N.D.	N.D.	50	1000
Di-isobutyl Phthalate (DIBP)	N.D.	N.D.	50	1000
Di-n-pentyl Phthalates (DPENP)	N.D.	N.D.	50	1000
Di-n-hexyl Phthalate (DHEXP)	N.D.	N.D.	50	1000
Dicyclohexyl Phthalate (DCHP)	N.D.	N.D.	50	1000

Specimen Description:

- 1 red plastic
- 2 blue plastic
- 3 yellow plastic
- 4 orange plastic
- 5 black plastic
- 6 white plastic

Note:

- MDL = Method Detection Limit
- N.D. = Not Detected (<MDL)
- mg/kg = ppm = parts per million
- 1000mg/kg = 0.1%
- The limit for composite test should be divided by the mixed number.
- The mixed test may result in false negative results, test per the client's request and the results for reference only.



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Appendix 4:

Battery-Operated Toys (Clause 4.25)

As specified in ASTM F963-23 Standard Consumer Safety Specification for Toys Safety.

<u>Clause</u>	<u>Description</u>	<u>Assessment</u>
4	<u>Safety Requirements</u>	
4.25	Battery-Operated Toy	
4.25.1	Marking on battery compartment	Pass
4.25.3	Protection against charging non-rechargeable battery	Pass
4.25.4	Battery Accessibility	Pass*
4.25.5	Isolation of batteries of different types or capacities	Pass
4.25.6	Temperature of battery surface	Pass
4.25.7	Overheating or combustion hazard after normal use and abuse test	Pass
4.25.8	Instruction on safe battery usage	Pass

Note:

- Only applicable clauses was/were shown.
- As per client's request, test conducted on specified sample.
- * The test results are determined by the sample submitted by the client on 2024-04-23.



Code of Federal Regulations, Title 16, Chapter II-Consumer Product Safety Commission

▼ Mechanical & Physical

Part	Test item	Result
1500.19	Misbranded toys and other articles intended for use by children	Pass
1500.48	Sharp point	Pass
1500.49	Sharp edge	Pass
1500.44	extremely flammable and flammable solids	Pass
1500.53(b)	Impact Test	Pass
1500.53(e)	Torque Test	Pass
1500.53(f)	Tension Test	Pass
1500.53(g)	Compression Test	Pass

Note:

- Only applicable clauses was/were shown.



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▼ Flammability Test

Flammability Test on Solid

As Specified In Title 16 Part 1500.44 Code of Federal Regulations U.S.A

<u>Sample</u>	<u>Burning Rate (inch/sec)</u>	<u>Limit (inch/sec)</u>
<u>Car series</u>	<u>DNI</u>	0.1
<u>Magic cube</u>	<u>DNI</u>	0.1
<u>Marble run</u>	<u>DNI</u>	0.1

Note 1: Burning rate has been rounded to the nearest one tenth of an inch per second.

- DNI = Did Not Ignite
- IBE = Ignite But Self-Extinguished
- Ave. = Average (two or more burn times with an average)

▼ Total Lead Content

Method: CPSC-CH-E1003-09.1

Analyzed Apparatus: ICP-OES

<u>Tested Item(s)</u>	<u>Result (mg/kg)</u>	<u>MDL</u>	<u>Limit</u>
	5	(mg/kg)	(mg/kg)
Total Lead (Pb)	N.D.	5	90

Specimen Description:

5 Black wet paint (Sample Resubmitted Date: 2024-04-26)

Note:

- MDL = Method Detection Limit
- N.D. = Not Detected (<MDL)
- mg/kg = ppm = parts per million



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Remark:

1. Since the data and/or information above division line of front page is provided by the applicant, the relevant results or conclusions of this report are only made for these data and/or information, VITS shall not be responsible for the authenticity and integrity of such data and information and the validity of the results and/or conclusions arising therefrom. Testing results only apply to the sample as received.
2. If relevant standards do not specify decision rule(s), follow decision rule as below:
 - “Pass” means that the measured result is within the limits, even when extended by expanded uncertainty at a level of confidence of 95%.
 - “Fail” means that the measured result is beyond the limit, even when extended by expanded uncertainty at a level of confidence of 95%.



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Sample Photo





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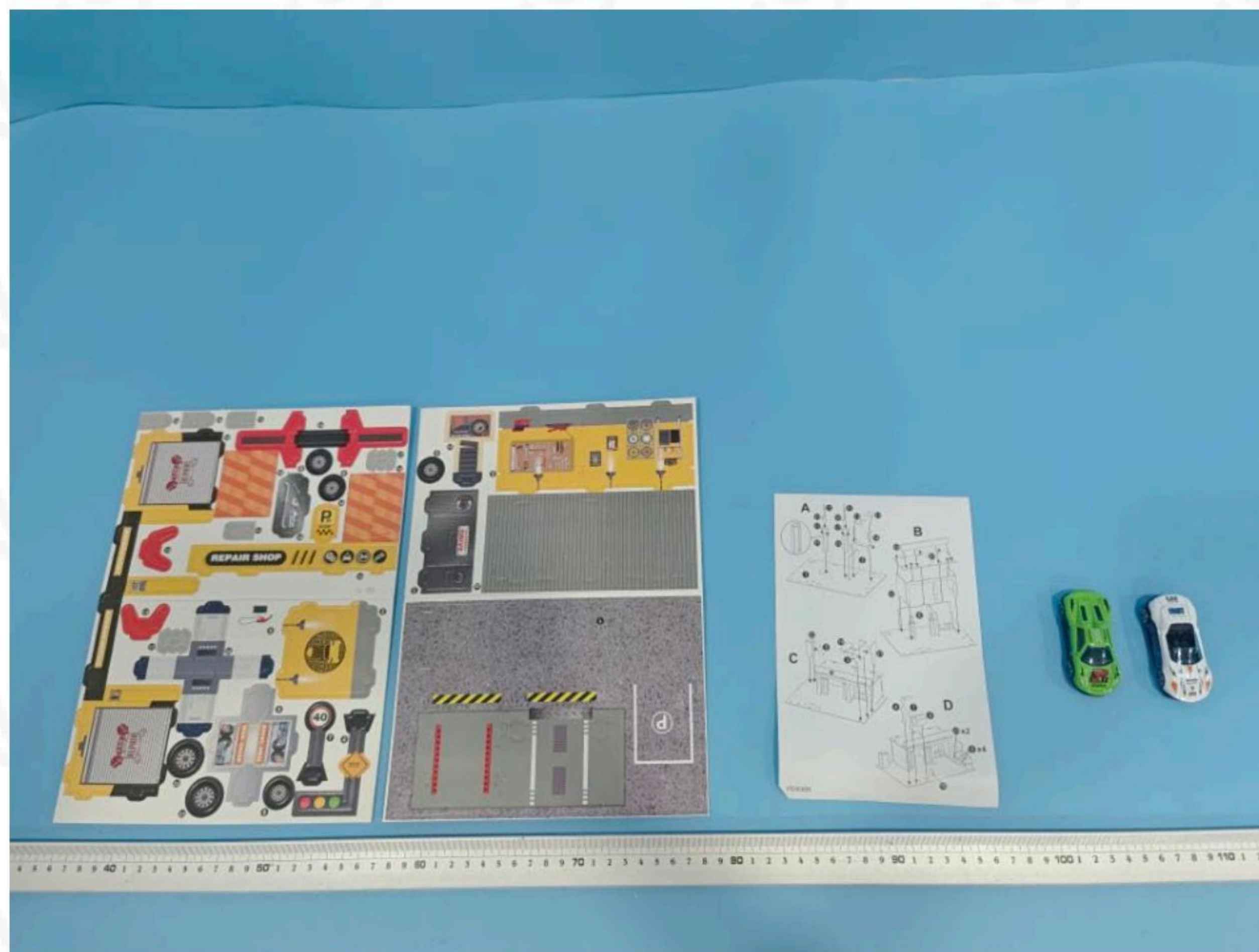
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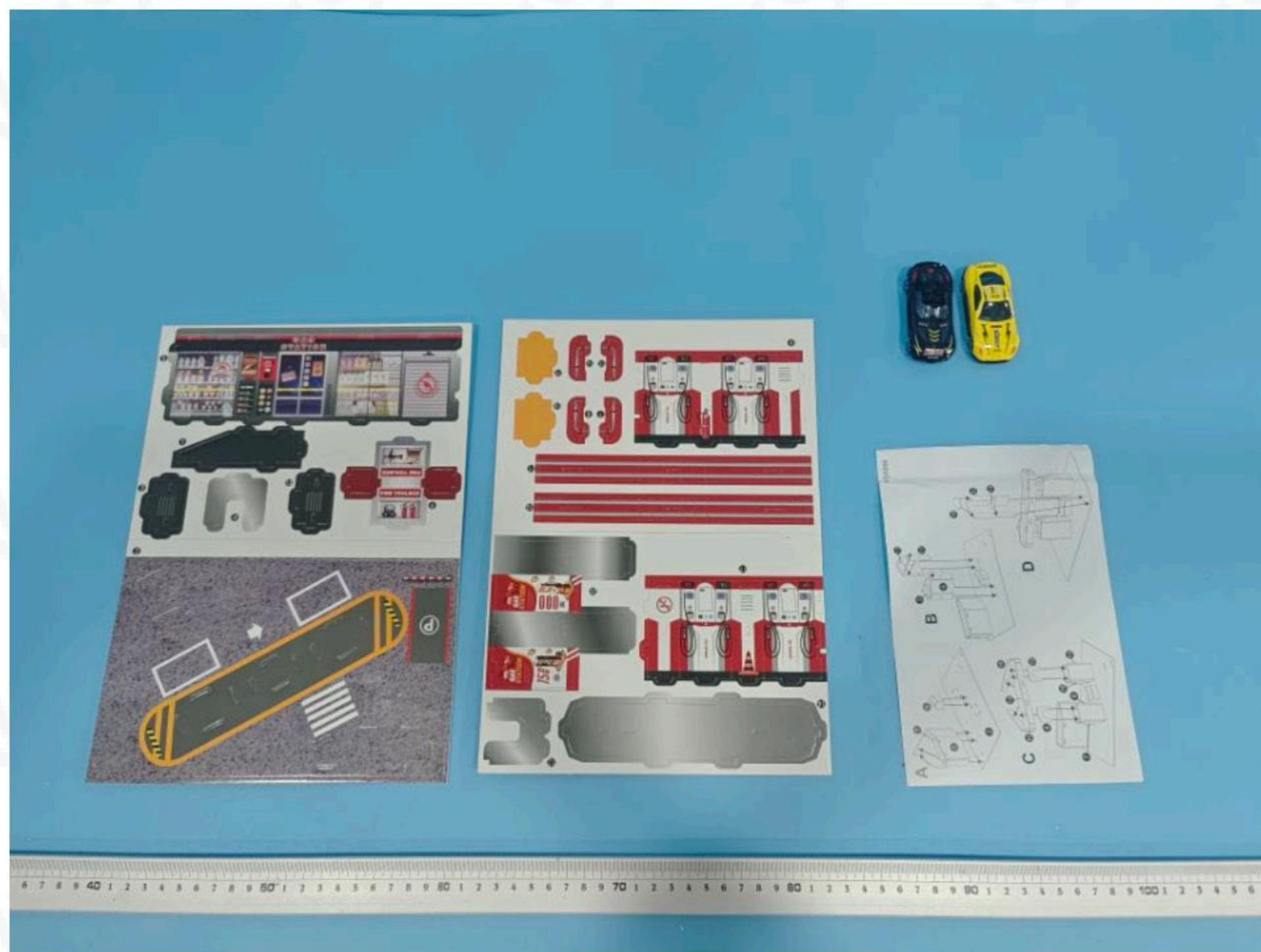
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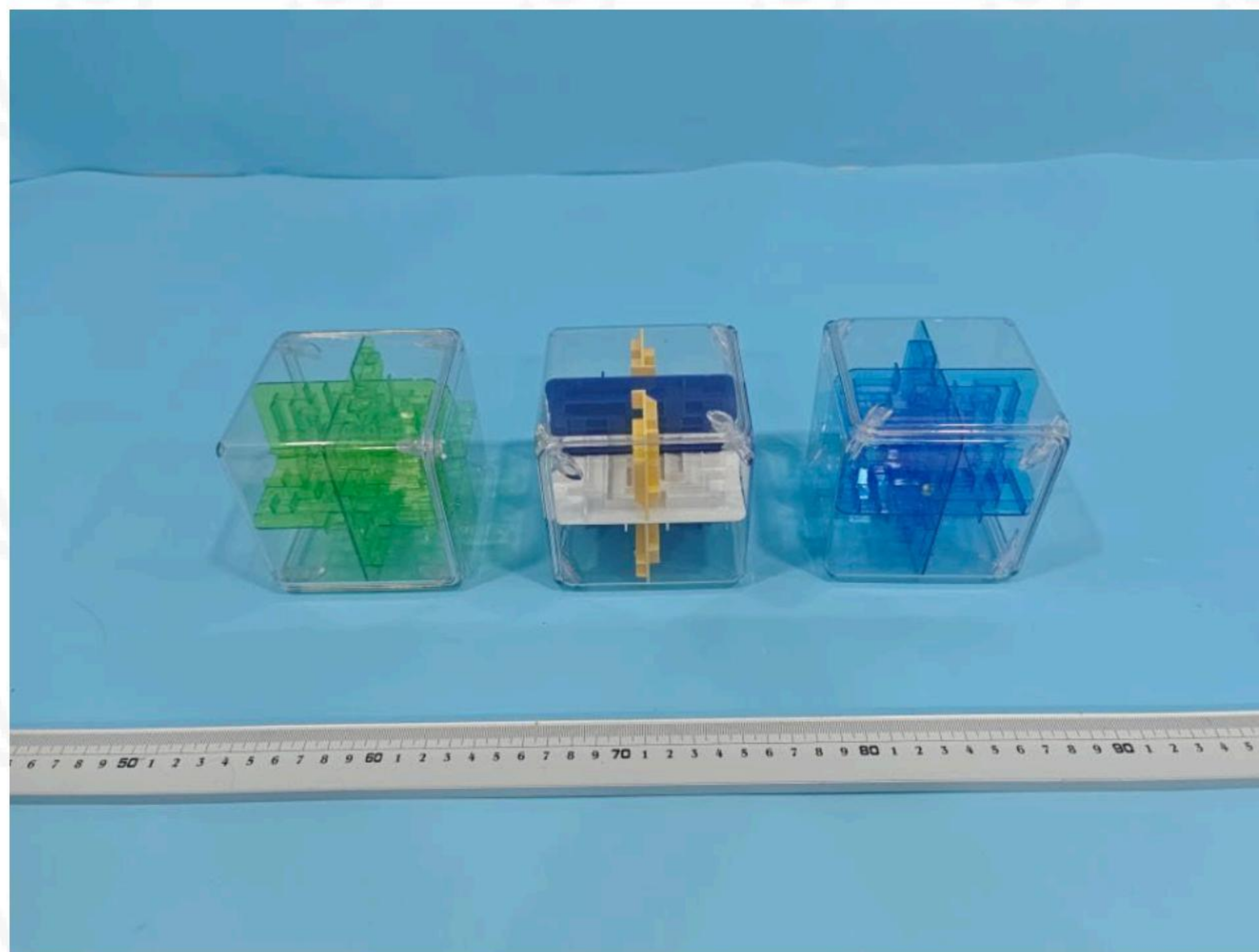
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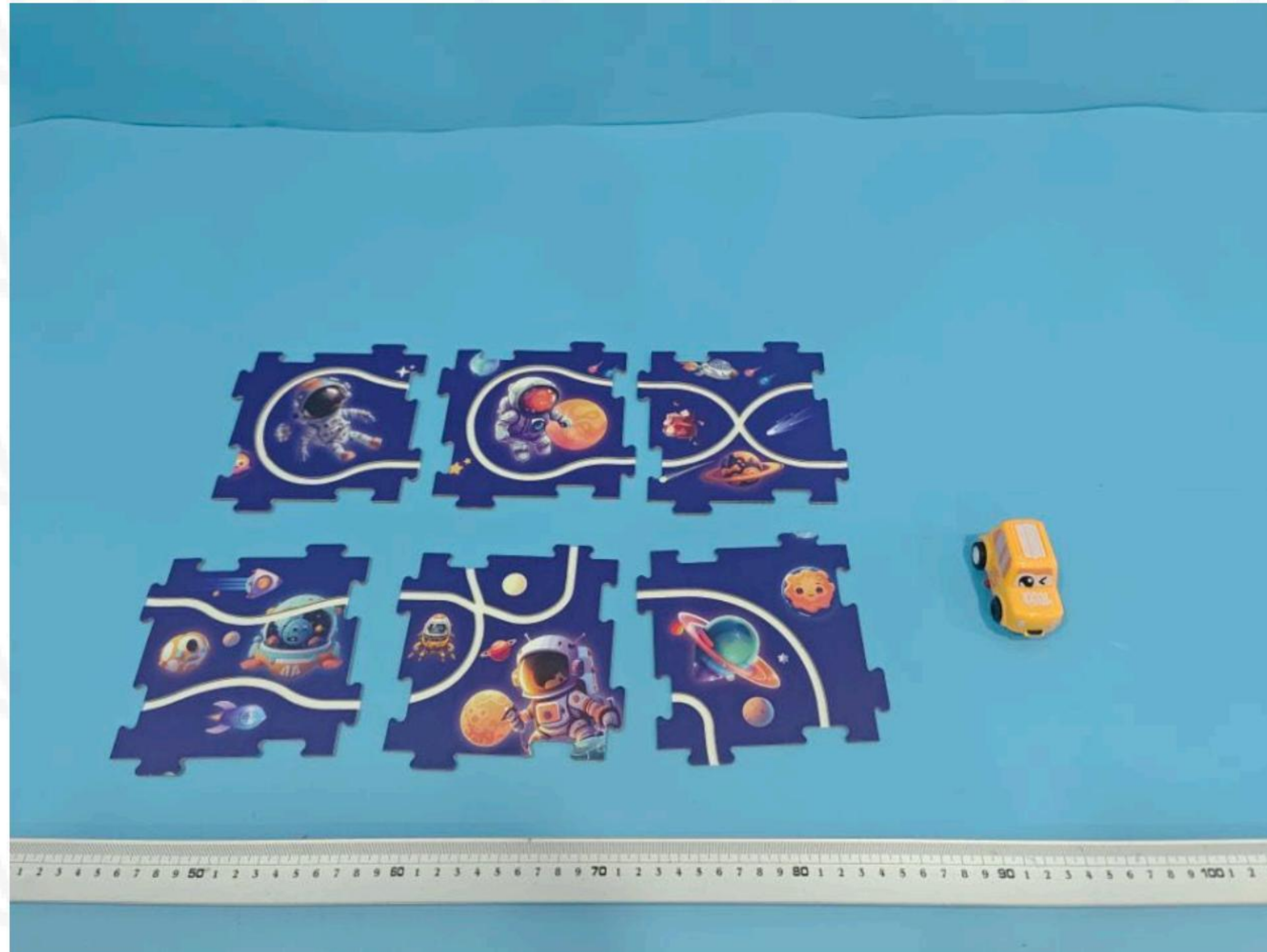
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