



Test Report

Report No : TST20250213046E

Date: Feb.27, 2025

Page 1 of 13

Applicant : Zhejiang Muzhilin Toys Co., LTD
Address : No.1, Building 4,77, Yangliuhe Road, Balongshan Street, Yunhe County, Lishui City, Zhejiang Province, China
Manufacturer : Zhejiang Muzhilin Toys Co., LTD
Address : No.1, Building 4,77, Yangliuhe Road, Balongshan Street, Yunhe County, Lishui City, Zhejiang Province, China
Trade marks : Mu Zhilin

The following sample(s) was /were submitted and identified on behalf of the clients as :

Sample Name : Color-shape classification box
Sample Description : Color-shape classification box
Main Model : MZL—108 MZL—109 MZL—110
Labeled Age Grading : Over 36 months old
Requested Age Grading : Over 18 months old
Age Group Assessed As Per Age : Over 18 months old
Sample Received Date : Feb.24, 2025
Testing Period : Feb.24, 2025 To Feb.27, 2025
Test Requested : According to customer requirements, test the samples.
Test Method : Please refer to next page(s).
Test Result : Please refer to next page(s).
Conclusion : The test results comply with the limits of EU Toys directive2009/48/EC.

Signed for and on behalf of



Scan QR code
verification of authenticity

Security Code : CY8ERVL9F

Andy Zheng
Technical Director

This report shall not be altered, increased or deleted. Without written approval of Dongguan True Safety Testing Co., Ltd., this test report shall not be copied except in full and published as advertisement. TST is not responsible for the authenticity of the information provided by the customer, including sample information. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

Dongguan True Safety Testing Co., Ltd.
Room 201, No.20, East of Houjie Avenue, Houjie, Dongguan, Guangdong, China
Tel:+86-0769-85088050 Fax:+86-0769-81221086 E-mail:tst@tst-test.com

Http:www.tst-test.com





Test Report

Report No : TST20250213046E

Date: Feb.27, 2025

Page 2 of 13

Result Summary:

Test Requested	Conclusion
Mechanical and Physical Test-EN71-1:2014+A1:2018	Pass
Flammability Test-EN71-2:2020	Pass
Migration Of Certain Elements-EN71-3:2019+A1:2021	Pass
Total Lead Content- -European Regulation (EC) No.1907/2006 of the Registration,Evaluation, Authorisation and Restriction of Chemicals (REACH)Annex XVII Item 63.	Pass

Sample Description:

No.	Description
1.	Color-shape classification box (Finished product)
2.	Blue Coating
3.	Pink Coating
4.	Green Coating
5.	Apricot Coating
6.	Purple Coating
7.	Kahki Coating
8.	Wood



This report shall not be altered, increased or deleted. Without written approval of Dongguan True Safety Testing Co., Ltd., this test report shall not be copied except in full and published as advertisement. TST is not responsible for the authenticity of the information provided by the customer, including sample information. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

Dongguan True Safety Testing Co., Ltd.

Room 201, No.20, East of Houjie Avenue, Houjie, Dongguan, Guangdong, China

Tel:+86-0769-85088050

Fax:+86-0769-81221086

E-mail:tst@tst-test.com

Http:www.tst-test.com



Test Report

Report No : TST20250213046E

Date: Feb.27, 2025

Page 3 of 13

1.Mechanical and Physical Test

As per European standard on safety of toys EN71-1:2014+A1:2018, Applicant's specified age group for testing:

Clause	Testing items	Result
		No.1
4	General requirements	P
4.1	Material cleanliness	P
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	P
4.8	Points and metallic, wires	P
4.9	Protruding parts	P
4.10	Parts moving against each other	NA
4.10.1	Folding and sliding mechanisms	NA
4.10.2	Driving mechanisms	NA
4.10.3	Hinges	NA
4.10.4	Springs	NA
4.11	Mouth-actuated toys and other toys intended to be put in the mouth	NA
4.12	Balloons	NA
4.13	Cords of toy kites and other flying toys	NA
4.14	Enclosures	NA
4.14.1	Toys which a child can enter	NA
4.14.2	Masks and helmets	NA
4.15	Toys intended to bear the mass of a child	NA
4.15.1	Toys propelled by a child or by other means	NA
4.15.2	Toy bicycles	NA

This report shall not be altered, increased or deleted. Without written approval of Dongguan True Safety Testing Co., Ltd., this test report shall not be copied except in full and published as advertisement. TST is not responsible for the authenticity of the information provided by the customer, including sample information. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

Dongguan True Safety Testing Co., Ltd.

Room 201, No.20, East of Houjie Avenue, Houjie, Dongguan, Guangdong, China

Tel:+86-0769-85088050

Fax:+86-0769-81221086

E-mail:tst@tst-test.com

Http:www.tst-test.com





Test Report

Report No : TST20250213046E

Date: Feb.27, 2025

Page 4 of 13

Clause	Testing items	Result
		No.1
4.15.3	Rocking horses and similar toys	NA
4.15.4	Toys not propelled by a child	NA
4.15.5	Toy scooters	NA
4.16	Heavy immobile toys	NA
4.17	Projectiles	NA
4.17.1	General	NA
4.17.2	All projectiles	NA
4.17.3	Projectile toys with stored energy	NA
4.17.4	Certain projectile toys without stored energy	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	P
4.23	Magnets	NA
4.23.1	General	NA
4.23.2	Toys other than magnetic/electrical experimental sets intended for children over 8 years	NA
4.23.3	Magnetic/electrical experimental sets intended for children over 8 years	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	P
5.1	General requirements	P
5.2	Soft-filled toys and soft-filled parts of a toy	NA

This report shall not be altered, increased or deleted. Without written approval of Dongguan True Safety Testing Co., Ltd., this test report shall not be copied except in full and published as advertisement. TST is not responsible for the authenticity of the information provided by the customer, including sample information. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

Dongguan True Safety Testing Co., Ltd.

Room 201, No.20, East of Houjie Avenue, Houjie, Dongguan, Guangdong, China

Tel:+86-0769-85088050

Fax:+86-0769-81221086

E-mail:tst@tst-test.com

Http:www.tst-test.com





Test Report

Report No : TST20250213046E

Date: Feb.27, 2025

Page 5 of 13

Clause	Testing items	Result
		No.1
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	P
5.9	Toys comprising monofilament fibres	NA
5.10	Small balls	P
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	P
7.1	General	P
7.2	Toys not intended for children under 36 months	NA
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	Projectiles	NA
7.7.1	Toys with projectiles which are able to discharge an object other than that provided with the toy	NA
7.7.2	Toys capable of discharging a projectile with a kinetic energy greater than 0.08 j	NA
7.8	Imitation protective masks and helmets	NA

This report shall not be altered, increased or deleted. Without written approval of Dongguan True Safety Testing Co., Ltd., this test report shall not be copied except in full and published as advertisement. TST is not responsible for the authenticity of the information provided by the customer, including sample information. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

Dongguan True Safety Testing Co., Ltd.

Room 201, No.20, East of Houjie Avenue, Houjie, Dongguan, Guangdong, China

Tel:+86-0769-85088050

Fax:+86-0769-81221086

E-mail:tst@tst-test.com

Http:www.tst-test.com





Test Report

Report No : TST20250213046E

Date: Feb.27, 2025

Page 6 of 13

Clause	Testing items	Result
		No.1
7.9	Toy kites	NA
7.10	Roller skates, inline skates, skateboards and certain other ride-on toys	NA
7.10.1	Roller skates, inline skates and skateboards	NA
7.10.2	Ride-on toys without a braking device	NA
7.10.3	Electrically-driven ride-on toys	NA
7.10.4	Instructions for use	NA
7.11	Toys intended to be attached to or 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
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 fibers	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 36months	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
8	Test Methods	P
8.1	General requirements for testing	P
8.2	Small parts cylinder	P

This report shall not be altered, increased or deleted. Without written approval of Dongguan True Safety Testing Co., Ltd., this test report shall not be copied except in full and published as advertisement. TST is not responsible for the authenticity of the information provided by the customer, including sample information. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

Dongguan True Safety Testing Co., Ltd.

Room 201, No.20, East of Houjie Avenue, Houjie, Dongguan, Guangdong, China

Tel:+86-0769-85088050

Fax:+86-0769-81221086

E-mail:tst@tst-test.com

Http:www.tst-test.com





Test Report

Report No : TST20250213046E

Date: Feb.27, 2025

Page 7 of 13

Clause	Testing items	Result
		No.1
8.3	Torque test	P
8.4	Tension Test	P
8.5	Drop test	P
8.6	Tip over test	NA
8.7	Impact test	P
8.8	Compression test	P
8.9	Soaking test	P
8.10	Accessibility of a part or component	P
8.11	Sharpness of edges	P
8.12	Sharpness of points	P
8.13	Flexibility of metallic wires	NA
8.16	Geometric shape of certain toys	P
8.24	Kinetic energy of projectiles	NA
8.25	Plastic sheeting	NA
8.28	Determination of emission sound pressure levels	NA
8.32	Small balls and suction cups test	P
8.34	Tension test for magnets	NA
8.35	Magnetic flux index	NA
8.37	Yo-yo balls measurements	NA
8.40	Length of cords and chains	NA
8.41	Assessment of the tangle potential of two cords or chains	NA
8.42	Determination of projectile range	NA
8.43	Assessment of leading parts of projectiles and flying toys	NA
8.44	Length of suction cup projectiles	NA
Remark :	1. P=Pass, 2. NA= Not Applicable, 3. F=Fail.	

This report shall not be altered, increased or deleted. Without written approval of Dongguan True Safety Testing Co., Ltd., this test report shall not be copied except in full and published as advertisement. TST is not responsible for the authenticity of the information provided by the customer, including sample information. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

Dongguan True Safety Testing Co., Ltd.

Room 201, No.20, East of Houjie Avenue, Houjie, Dongguan, Guangdong, China

Tel:+86-0769-85088050

Fax:+86-0769-81221086

E-mail:tst@tst-test.com

Http:www.tst-test.com





Test Report

Report No : TST20250213046E

Date: Feb.27, 2025

Page 8 of 13

2.Flammability Test

As per European standard on safety of toys EN71-2:2020

Clause	Testing Items	Result
		No.1
4.1	General	P
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 intend to be entered by a child	NA
4.5	Soft filler toys(animal and dolls etc.) With a piled or textile surface	NA
Remark :	1. P = Pass; 2. NA = Not applicable.	



This report shall not be altered, increased or deleted. Without written approval of Dongguan True Safety Testing Co., Ltd., this test report shall not be copied except in full and published as advertisement. TST is not responsible for the authenticity of the information provided by the customer, including sample information. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

Dongguan True Safety Testing Co., Ltd.

Room 201, No.20, East of Houjie Avenue, Houjie, Dongguan, Guangdong, China

Tel:+86-0769-85088050

Fax:+86-0769-81221086

E-mail:tst@tst-test.com

Http:www.tst-test.com



Test Report

Report No : TST20250213046E

Date: Feb.27, 2025

Page 9 of 13

3. Migration Of Certain Elements

As per European standard on safety of toys EN71-3:2019+A1:2021

The Results:

Migration test

Test Item(s)	Unit	Result	Result	Result	Result	MDL	Limit Cat III
		No.2	No.3	No.4	No.5		
Soluble Aluminium (Al)	mg/kg	N.D.	N.D.	N.D.	N.D.	50	28130
Soluble Antimony(Sb)	mg/kg	N.D.	N.D.	N.D.	N.D.	10	560
Soluble Arsenic(As)	mg/kg	N.D.	N.D.	N.D.	N.D.	0.5	47
Soluble Barium(Ba)	mg/kg	N.D.	N.D.	N.D.	N.D.	50	18750
Soluble Boron(B)	mg/kg	N.D.	N.D.	N.D.	N.D.	50	15000
Soluble Cadmium(Cd)	mg/kg	N.D.	N.D.	N.D.	N.D.	0.3	17
Soluble Chromium(III)(Cr III)	mg/kg	N.D.	N.D.	N.D.	N.D.	5	460
Soluble Chromium(VI) (Cr VI)	mg/kg	N.D.	N.D.	N.D.	N.D.	0.005	0.053
Soluble Cobalt(Co)	mg/kg	N.D.	N.D.	N.D.	N.D.	2.5	130
Soluble Copper(Cu)	mg/kg	N.D.	N.D.	N.D.	N.D.	50	7700
Soluble Lead(Pb)	mg/kg	N.D.	N.D.	N.D.	N.D.	0.5	23
Soluble Manganese(Mn)	mg/kg	N.D.	N.D.	N.D.	N.D.	50	15000
Soluble Mercury(Hg)	mg/kg	N.D.	N.D.	N.D.	N.D.	1.0	94
Soluble Nickel(Ni)	mg/kg	N.D.	N.D.	N.D.	N.D.	10	930
Soluble Selenium(Se)	mg/kg	N.D.	N.D.	N.D.	N.D.	5	460
Soluble Strontium(Sr)	mg/kg	N.D.	N.D.	N.D.	N.D.	50	56000
Tin(Sn)	mg/kg	N.D.	N.D.	N.D.	N.D.	50	180000
Organic tin	mg/kg	N.D.	N.D.	N.D.	N.D.	0.2	12
Soluble Zinc(Zn)	mg/kg	N.D.	N.D.	N.D.	N.D.	50	46000



This report shall not be altered, increased or deleted. Without written approval of Dongguan True Safety Testing Co., Ltd., this test report shall not be copied except in full and published as advertisement. TST is not responsible for the authenticity of the information provided by the customer, including sample information. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

Dongguan True Safety Testing Co., Ltd.

Room 201, No.20, East of Houjie Avenue, Houjie, Dongguan, Guangdong, China

Tel:+86-0769-85088050

Fax:+86-0769-81221086

E-mail:tst@tst-test.com

Http:www.tst-test.com



Test Report

Report No : TST20250213046E

Date: Feb.27, 2025

Page 10 of 13

Test Item(s)	Unit	Result	Result	Result	Result	MDL	Limit Cat III
		No.6	No.7	No.8	No.9		
Soluble Aluminium (Al)	mg/kg	N.D.	N.D.	N.D.	N.D.	50	28130
Soluble Antimony(Sb)	mg/kg	N.D.	N.D.	N.D.	N.D.	10	560
Soluble Arsenic(As)	mg/kg	N.D.	N.D.	N.D.	N.D.	0.5	47
Soluble Barium(Ba)	mg/kg	N.D.	N.D.	N.D.	N.D.	50	18750
Soluble Boron(B)	mg/kg	N.D.	N.D.	N.D.	N.D.	50	15000
Soluble Cadmium(Cd)	mg/kg	N.D.	N.D.	N.D.	N.D.	0.3	17
Soluble Chromium(III)(Cr III)	mg/kg	N.D.	N.D.	N.D.	N.D.	5	460
Soluble Chromium(VI) (Cr VI)	mg/kg	N.D.	N.D.	N.D.	N.D.	0.005	0.053
Soluble Cobalt(Co)	mg/kg	N.D.	N.D.	N.D.	N.D.	2.5	130
Soluble Copper(Cu)	mg/kg	N.D.	N.D.	N.D.	N.D.	50	7700
Soluble Lead(Pb)	mg/kg	N.D.	N.D.	N.D.	N.D.	0.5	23
Soluble Manganese(Mn)	mg/kg	N.D.	N.D.	N.D.	N.D.	50	15000
Soluble Mercury(Hg)	mg/kg	N.D.	N.D.	N.D.	N.D.	1.0	94
Soluble Nickel(Ni)	mg/kg	N.D.	N.D.	N.D.	N.D.	10	930
Soluble Selenium(Se)	mg/kg	N.D.	N.D.	N.D.	N.D.	5	460
Soluble Strontium(Sr)	mg/kg	N.D.	N.D.	N.D.	N.D.	50	56000
Tin(Sn)	mg/kg	N.D.	N.D.	N.D.	N.D.	50	180000
Organic tin	mg/kg	N.D.	N.D.	N.D.	N.D.	0.2	12
Soluble Zinc(Zn)	mg/kg	N.D.	N.D.	N.D.	N.D.	50	46000

Note:

1. mg/kg= Milligrams per kilogram
2. N.D.=No Detection(<MDL)
3. MDL =Method Detection Limit
- 4.--=No testing required

This report shall not be altered, increased or deleted. Without written approval of Dongguan True Safety Testing Co., Ltd., this test report shall not be copied except in full and published as advertisement. TST is not responsible for the authenticity of the information provided by the customer, including sample information. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

Dongguan True Safety Testing Co., Ltd.

Room 201, No.20, East of Houjie Avenue, Houjie, Dongguan, Guangdong, China

Tel:+86-0769-85088050

Fax:+86-0769-81221086

E-mail:tst@tst-test.com

Http:www.tst-test.com



Test Report

Report No : TST20250213046E

Date: Feb.27, 2025

Page 11 of 13

4.Total Lead

Test Method: Refer to IEC 62321-5:2013, was analyzed by ICP-OES.

Test Item	Unit	MDL	Result	Result	Limit
			No.2+No.3+No.4 (Mix)	No.5+No.6+No.7 (Mix)	
Total Lead	mg/kg	10	N.D.	N.D.	500

Test Item	Unit	MDL	Result	Result	Limit
			No.8	No.9	
Total Lead	mg/kg	10	N.D.	N.D.	500

- Note:**
1. mg/kg=milligrams per kilogram
 2. MDL = Method Detection Limit
 3. N.D.=Not Detection(<MDL)

This report shall not be altered, increased or deleted. Without written approval of Dongguan True Safety Testing Co., Ltd., this test report shall not be copied except in full and published as advertisement. TST is not responsible for the authenticity of the information provided by the customer, including sample information. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

Dongguan True Safety Testing Co., Ltd.

Room 201, No.20, East of Houjie Avenue, Houjie, Dongguan, Guangdong, China

Tel:+86-0769-85088050

Fax:+86-0769-81221086

E-mail:tst@tst-test.com

Http:www.tst-test.com





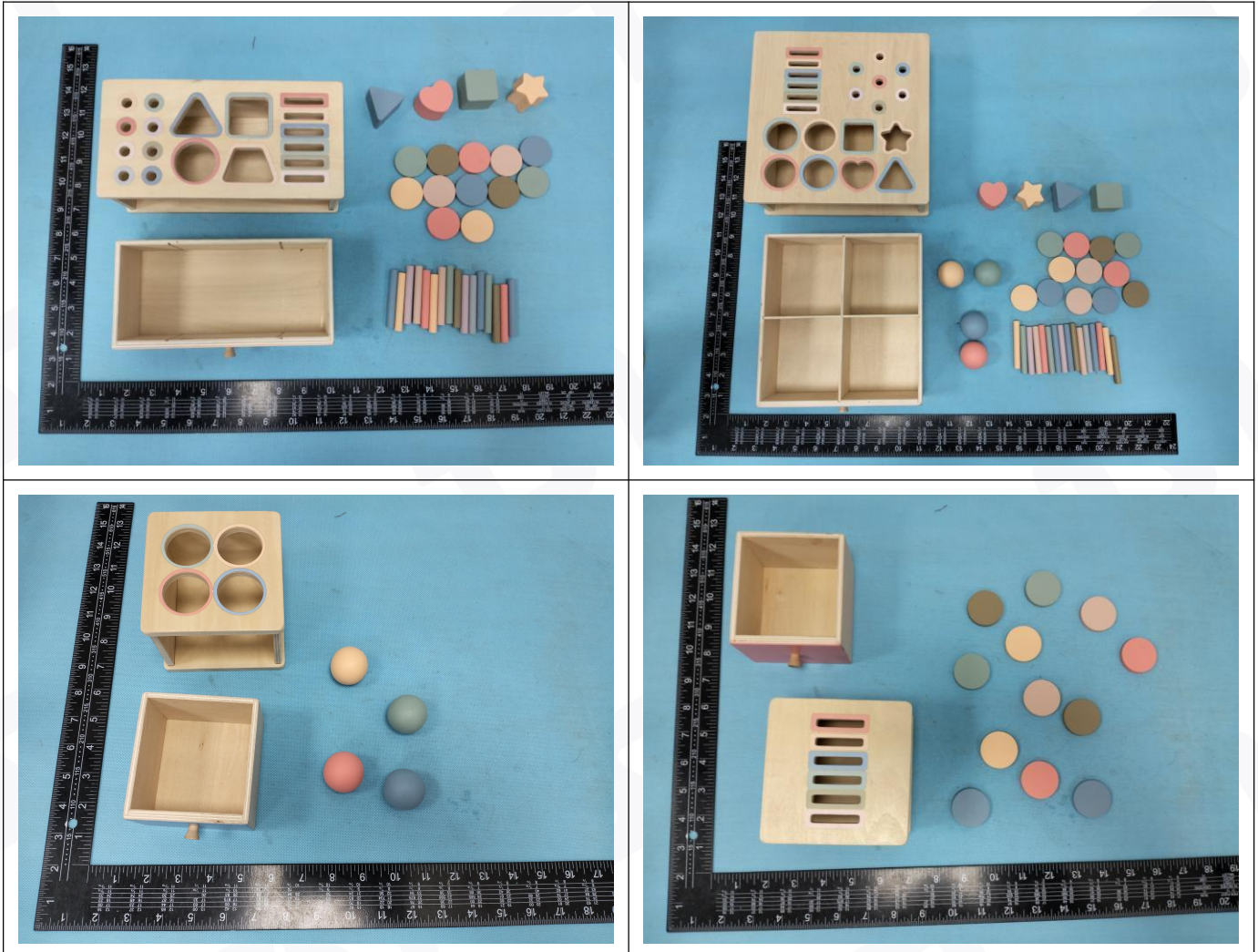
Test Report

Report No : TST20250213046E

Date: Feb.27, 2025

Page 12 of 13

Sample pictures:



This report shall not be altered, increased or deleted. Without written approval of Dongguan True Safety Testing Co., Ltd., this test report shall not be copied except in full and published as advertisement. TST is not responsible for the authenticity of the information provided by the customer, including sample information. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

Dongguan True Safety Testing Co., Ltd.

Room 201, No.20, East of Houjie Avenue, Houjie, Dongguan, Guangdong, China

Tel:+86-0769-85088050

Fax:+86-0769-81221086

E-mail:tst@tst-test.com

Http:www.tst-test.com



Test Report

Report No : TST20250213046E

Date: Feb.27, 2025

Page 13 of 13



Product Label	
Sample Name	Color-shape classification box
Trade Marks	Mu Zhilin
Generation	36+
Sample Model	MZL—108 MZL—109 MZL—110
Manufacturer	Zhejiang Muzhilin Toys Co., LTD
Manufacture Address	No.1, Building 4,77, Yangliuhe Road, Balongshan Street, Yunhe County, Lishui City, Zhejiang Province, China
Manufacture Date	2025.1.1
Made in China   	
 WARNING:	CHOKING HAZARD—Small parts. Not for children under 3 yrs.



*** End of Report ***

This report shall not be altered, increased or deleted. Without written approval of Dongguan True Safety Testing Co., Ltd., this test report shall not be copied except in full and published as advertisement. TST is not responsible for the authenticity of the information provided by the customer, including sample information. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

Dongguan True Safety Testing Co., Ltd.
Room 201, No.20, East of Houjie Avenue, Houjie, Dongguan, Guangdong, China
Tel:+86-0769-85088050 Fax:+86-0769-81221086 E-mail:tst@tst-test.com

Http:www.tst-test.com