

GUANGDONG WONDER TESTING INTERNATIONAL CO., LTD.

TEST REPORT

Report No.: WDJ25090009ENR1

Applicant: Mid Ocean Brands B.V.

Unit 711- 716, 7/F., Tower A, 83 King Lam Address:

Street

Cheung Sha Wan, Kowloon, Hong Kong

Date: Sep. 13, 2025



Floor 6, No.14, Gaoxin Road, Huadu District, Guangzhou City, Guangdong Province, China, 510820 Tel: 86-020-8689 0001 Website: http://www.wdwonder.com



Report No.: WDJ25090009ENR1 Sep. 13, 2025 Page: 1 / 15 Date:

Mid Ocean Brands B.V. Applicant:

Address: Unit 711- 716, 7/F., Tower A, 83 King Lam Street

Cheung Sha Wan, Kowloon, Hong Kong

The following information was (were) submitted and identified by client:

Sample Name: Plastic sliding puzzle

Style of Sample: KC4861 107961 Supplier:

Labeled Age Grading: Not stated Applicant's Specified: 3+ years Age Group for Testing: 3+ years

Sample Received Date: Sep. 02, 2025 **Completed Date:** Sep. 11, 2025

Test Result(s): Please refer to next page(s).

Test Requested and Conclusion(s):

No.	Test Sample(s)	Standard(s) and Requirement(s)	Signed by						
As requested by the client, according to European Directive 2009/48/EC and its subsequent amendments,									
test i	test items as below:								
1	Submitted sample	Mechanical and Physical Properties according to EN71 Part 1: 2014+A1:2018	PASS	Sally					
2	Tested materials of submitted samples	Flammability according to EN71 Part 2:2020+A1:2025	PASS						
3	Tested materials of submitted samples	Migration of certain elements according to EN 71 Part 3:2019+A2:2024	PASS						
4	Tested materials of submitted samples	Cadmium(Cd) content-Regulation (EC) No.1907/2006, REACH Annex XVII (entry 23)	PASS	1					
5	Tested materials of submitted samples	Benzene content-Regulation (EC) No.1907/2006, REACH Annex XVII (entry 5)	PASS	Andy zhu					
6	Tested materials of submitted samples	Phthalates content-Regulation (EC) No.1907/2006, REACH Annex XVII (entry 51&52)	PASS						
7	Tested materials of submitted samples	Polycyclic Aromatic Hydrocarbons (PAHs) contents according to AfPS GS 2019:01 PAK	PASS						



Report No.: WDJ25090009ENR1

Date: Sep. 13, 2025

Page: 2 / 15

TEST PART DESCRIPTION:

1# Whole product

2# White plastic

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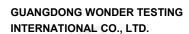


Report No.: WDJ25090009ENR1 **Date:** Sep. 13, 2025 **Page:** 3 / 15

Test Result(s):

 European Standard-Safety of Toys: EN71 Part 1: 2014+A1:2018-Mechanical and Physical Properties

Properties	
Test Items	Test Results
rest items	1#
4.1 Material cleanliness	PASS
4.2 Assembly	N/A
4.3 Flexible plastic sheeting	N/A
4.4 Toy bags	N/A
4.5 Glass	N/A
4.6 Expanding materials	N/A
4.7 Edges	PASS
(a) Edges of metal or glass	N/A
b) Overlap joints	N/A
(c) Edges of metal and of rigid polymeric material	PASS
(d) Functional edges	N/A
4.8 Points and wires	PASS
(a) Points	PASS
(b) Sharp functional points	N/A
(c) Metallic wires intended to be bent	N/A
(d) Metallic wires not designed to be bent	N/A
(e) Splinters on surfaces and accessible edges of toys	N/A
1.9 Protruding parts	N/A
4.10 Parts moving against each other	N/A
4.10.1 Folding and slide mechanism	N/A
4.10.2 Driving mechanisms	N/A
4.10.3 Hinges	N/A
4.10.4 Springs	N/A
4.11 Mouth-actuated toys and other toys intended to be put in the	N/A
mouth	IVA
4.12 Balloons	N/A
1.13 Cords of toy kites and other flying toys	N/A
4.14 Enclosures	N/A
4.14.1 Toys which a children can enter	N/A
4.14.2 Masks and helmets	N/A
4.15 Toys intended to bear the mass of a child	N/A
4.15.1 Toys propelled by the child or by other means	N/A



Floor 6, No.14,Gaoxin Road, Huadu District, Guangzhou City,Guangdong Province, China, 510820 E-mail: wd@wdwonder.com Tel: 86-020-8689 0001







Report No.: WDJ25090009ENR1 **Date:** Sep. 13, 2025 **Page:** 4 / 15

Toot Itoma	Test Results
Test Items	1#
4.15.2 Toy bicycles	N/A
4.15.3 Rocking horses and similar toys	N/A
4.15.4 Toys not propelled by a child	N/A
4.15.5 Toys scooters	N/A
4.16 Heavy immobile toys	N/A
4.17 Projectiles toys	N/A
4.17.1 General	N/A
4.17.2 All projectiles	N/A
4.17.3 Projectile toys with stored energy	N/A
4.17.4 Certain projectile toys without stored energy	N/A
4.18 Aquatic toys and inflatable toys	N/A
4.19 Percussion caps specifically designed for use in toys a toys using percussion caps	nd N/A
4.20 Acoustics	N/A
4.21 Toys containing a non-electrical heat source	N/A
4.22 Small balls	N/A
4.23 Magnets	N/A
4.23.1 General	N/A
4.23.2 Toys other than magnetic/electrical experimental sets	N/A
4.23.3 Magnetic/ electrical experimental sets	N/A
4.24 Yo-yo balls	N/A
4.25 Toys attached to food	N/A
4.26 Toy Disguise Costumes	N/A
4.27 Flying toys	N/A





Report No.: WDJ25090009ENR1 **Date:** Sep. 13, 2025 **Page:** 5 / 15

Test Result(s):

	Test Items	Test Results
	rest items	1#
5.	Toys intended for children under 36 months	OND
5.1	General requirements	N.A.
(a) their p	Toys and removable components of toys shall not, whatever position fit entirely in the cylinder	N.A.
	When tested toys shall not produce any parts which, whatever position, fit entirely in the cylinder, or exhibit accessible hazardous edges or accessible hazardous sharp points	N.A.
(c)	Metal points and wires with a cross section of 2 mm or less	N.A.
(d)	Large and bulky toys	N.A.
(e)	Glued wooden toys and toys with glued-on plastic decals	N.A.
(f)	The casing of toys	N.A.
(g) F	For foam toys and toys containing accessible foam components	N.A.
5.2	Soft-filled toys and soft-filled parts of a toy	N.A.
(a)	Hard and sharp contaminants	N.A.
(b) parts	Soft-filled toys and soft-filled parts of a toy containing small	N.A.
(c)	fibrous filling material	N.A.
5.3	Plastic sheeting	N.A.
5.4 Cord, chains and electrical cables in toys		N.A.
5.4.1	General	N.A.
5.4.2	Cords and chains in toys intended for children under 18 months	N.A.
5.4.3 over b	Cords and chains in toys intended for children of 18 months or but under 36 months	N.A.
5.4.4	Fixed loops, tangled loops and nooses	N.A.
5.4.5	Cords and chains on pull along toys	N.A.
5.4.6	Electrical cables	N.A.
5.4.7	Cross-sectional dimension of certain cords	N.A.
5.4.8	Self-retracting cords	N.A.
5.4.9 peran	Toys attached to or intended to be strung across a cradle, cot or abulator	N.A.
5.5	Liquid-filled toys	N.A.
5.6	Speed limitation of electrically-driven ride-on toys	N.A.
5.7	Glass and porcelain	N.A.
5.8	Shape and size of certain toys	N.A.
5.9	Toys comprising monofilament fibres	N.A.



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Report No.: WDJ25090009ENR1 **Date:** Sep. 13, 2025 **Page:** 6 / 15

	Test Items	Test Results	1/1/0
	rest items	1#	
5.10	Small balls	N.A.	
5.11	Play figures	N.A.	
5.12	Hemispheric-shaped toys	N.A.	
5.13	Suction cups	N.A.	
5.14	Straps intended to be worn fully or partially around the neck	N.A.	
5.15	Sledges with cords for pulling	N.A.	

Test Items				Test Results 1#	
6.	Packaging			N.A.	



Report No.: WDJ25090009ENR1 **Date:** Sep. 13, 2025 **Page:** 7 / 15

Test Result(s):

	Toot Itoma	Test Results
	Test Items	1#
7.	Warnings, markings and instructions for use Tracking information [CE mark, importer / manufacturer mark (name, address), product identification]	Present
7.1	General	PASS
7.2	Toys not intended for children under 36 months	PASS
7.3	Latex balloons	N.A.
7.4	Aquatic toys	N.A.
7.5	Functional toys	N.A.
7.6	Hazardous sharp functional edges and points	N.A.
7.7	Projectiles toys	N.A.
7.8	Imitation protective masks and helmets	N.A.
7.9	Toy kites	N.A.
7.10 ride-on	Roller skates, inline skates, skateboards and certain other toys	N.A.
7.11	Toys intended to be strung across a cradle,cot,or perambulator	N.A.
7.12	Liquid filled tethers	N.A.
7.13	Percussion caps specifically designed for use in toys	N.A.
7.14	Acoustics	N.A.
7.15	Toys bicycle	N.A.
7.16	Toys intended to bear the mass of a child	N.A.
7.17	Toys comprising monofilament fibers	N.A.
7.18	Toy scooters	N.A.
7.19	Rocking horses and similar toys	N.A.
7.20	Magnetic/electrical experimental sets	N.A.
7.21	Toys with electrical cables exceeding 300mm in length	N.A.
7.22	Toys with cords or chains intended for children of 18 months and over but under 36 months	N.A.
7.23	Toys intended to be attached to a cradle, cot or perambulator	N.A.
7.24	Sledges with cords for pulling	N.A.
7.25	Flying toys	N.A.

Remark: It is drawn to your attention that the product identification number, name and address of manufacturer and importer in EEC country together with CE-marking should appear as specified in Directive-2009/48/EC-Safety of toys.





Report No.: WDJ25090009ENR1 **Date:** Sep. 13, 2025 **Page:** 8 / 15

Test Result(s):

2. European Standard-Safety of Toys: EN71 Part 2: 2020+A1:2025-Flammability

	Took Manua	Test Results	
Test Items		1#	
4.1	General Requirements	PASS	
4.2	Toys to be worn on the head	N.A.	
4.3	Toy disguise costumes and toys intended to be worn by a child in play	N.A.	WOR
4.4	Toys intended to be entered by a child	N.A.	
4.5	Soft filled toys	N.A.	

Floor 6, No.14, Gaoxin Road, Huadu District, Guangzhou City, Guangdong Province, China, 510820

Tel: 86-020-8689 0001

Website: http://www.wdwonder.com

E-mail: wd@wdwonder.com

Fax: 86-020-8689 6998



Report No.: WDJ25090009ENR1 Sep. 13, 2025 Page: 9 / 15 Date:

Test Result(s):

Migration of certain elements

Test Method: With reference to:

Extractable Chromium (VI): With reference to EN 71-3:2019+A2:2024, analysis was performed by

IC-ICP-MS.

Extractable Chromium (III): With reference to EN 71-3:2019+A2:2024, calculated by subtracting the Chromium (VI) concentration from the total chromium concentration.

Other Elements: With reference to EN 71-3:2019+A2:2024, analysis was performed by ICP-MS.

Extractable Organic Tin: With reference to EN 71-3:2019+A2:2024, analysis was performed by GC-MS.

			Result	Category
Test Item(s)	Unit	MDL	2#	III
Extractable Lead (Pb)	mg/kg	0.5	N.D.	23
Extractable Antimony (Sb)	mg/kg	5	N.D.	560
Extractable Arsenic (As)	mg/kg	0.5	N.D.	47
Extractable Barium (Ba)	mg/kg	50	N.D.	18750
Extractable Cadmium (Cd)	mg/kg	0.3	N.D.	17
Extractable Chromium (III) (Cr III)	mg/kg	5	N.D.	460
Extractable Chromium (VI)(Cr VI)	mg/kg	0.02	N.D.	0.053
Extractable Mercury (Hg)	mg/kg	1	N.D.	94
Extractable Selenium (Se)	mg/kg	5	N.D.	460
Extractable Boron (B)	mg/kg	50	N.D.	15000
Extractable Cobalt (Co)	mg/kg	0.5	N.D.	130
Extractable Manganese (Mn)	mg/kg	2 50	N.D.	15000
Extractable Strontium (Sr)	mg/kg	50	N.D.	56000
Extractable Tin (Sn)	mg/kg	5	N.D.	180000
Extractable Zinc (Zn)	mg/kg	50	N.D.	46000
Extractable Copper (Cu)	mg/kg	50	N.D.	7700
Extractable Aluminum (Al)	mg/kg	50	N.D.	28130
Extractable Nickel (Ni)	mg/kg	10	N.D.	930
Extractable Organic Tin	mg/kg	0.02	N.D.	12
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Report No.: WDJ25090009ENR1 **Date:** Sep. 13, 2025 **Page:** 10 / 15

Limited Value for migration of certain elements:

Test Item(s)	Unit		Limited Value*	
rest item(s)	Oilit	Category I	Category II	Category III
Extractable Lead (Pb)	mg/kg	2.0	0.5	23
Extractable Antimony (Sb)	mg/kg	45	11.3	560
Extractable Arsenic (As)	mg/kg	3.8	0.9	47
Extractable Barium (Ba)	mg/kg	1500	375	18750
Extractable Cadmium (Cd)	mg/kg	1.3	0.3	17
Extractable Chromium (III) (Cr III)	mg/kg	37.5	9.4	460
Extractable Chromium (VI) (Cr VI)	mg/kg	0.02	0.005	0.053
Extractable Mercury (Hg)	mg/kg	7.5	1.9	94
Extractable Selenium (Se)	mg/kg	37.5	9.4	460
Extractable Boron (B)	mg/kg	1200	300	15000
Extractable Cobalt (Co)	mg/kg	10.5	2.6	130
Extractable Manganese (Mn)	mg/kg	1200	300	15000
Extractable Strontium (Sr)	mg/kg	4500	1125	56000
Extractable Tin (Sn)	mg/kg	15000	3750	180000
Extractable Zinc (Zn)	mg/kg	3750	938	46000
Extractable Copper (Cu)	mg/kg	622.5	156	7700
Extractable Aluminum (Al)	mg/kg	2250	560	28130
Extractable Nickel (Ni)	mg/kg	75	18.8	930
Extractable Organic Tin	mg/kg	0.9	0.2	12

Remark: * The Limited value is based on European Directive 2009/48/EC and its subsequent amendments and EN 71-3:2019+A2:2024.

Category I: Dry, brittle, powder-like or pliable materials

Category II: Liquid or sticky materials Category III: Scrapped-off materials





Report No.: WDJ25090009ENR1 Sep. 13, 2025 Page: 11 / 15 Date:

Test Result(s):

4. Cadmium (Cd) Content

Test Method: With reference to EN 1122- 2001 Method B, Analysis was performed by ICP-AES.

Test Item(s)	MDL	Test Results (mg/kg)	Limited Value
rest item(s)	(mg/kg)	2#	(mg/kg)
Cadmium (Cd)	10	N.D.	100

Remark: The above limited value was quoted according to EC Regulation 1907/2006, REACH Annex XVII (entry 23).

Benzene Content

Test Method: With reference to ASTM D4526-20, Analysis was performed by HS-GC-FID.

Test Item(s)	Unit	MDL (mg/kg)	Test Results (mg/kg) 2#	Limited Value (mg/kg)
Benzene	mg/kg	5	N.D.	5

Remark: The above limited value was quoted according to EC Regulation 1907/2006, REACH Annex XVII (entry 5).



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Sep. 13, 2025 Report No.: WDJ25090009ENR1 Page: 12 / 15 Date:

Test Result(s):

6. Phthalates Content

Test Method: With reference to EN 14372-2004, Analysis was performed by GC-MS.

Test Item(s)	Unit	MDL	Test Results	Limited Value
Dibutyl Phthalate((DBP)	DMD	0.005	N.D.	
Benzylbutyl Phthalate(BBP)		0.005	N.D.	\
Di-(2-ethylhexyl)Phthalate(DEHP)	%	0.005	N.D.	
Di-isobutyl phthalate (DIBP)		0.005	N.D.	
Total (DBP+BBP+DEHP+DIBP)	NOE	R	< 0.020	< 0.1

Test Item(s)	Unit	MDL	Test Results	Limited
			2#	Value
Di-iso-nonylphthalate(DINP)		0.005	N.D.	
Di-n-octylphthalate(DNOP)	%	0.005	N.D.	
Di-iso-decylphthalate(DIDP)		0.005	N.D.	[
Total (DINP+DNOP+DIDP)			< 0.015	< 0.1

Remark: The above limited value was quoted according to EC Regulation 1907/2006, REACH Annex XVII (entry 51&52).



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Report No.: WDJ25090009ENR1 **Date:** Sep. 13, 2025 **Page:** 13 / 15

Test Result(s): 7.PAHs Contents

Test Method: With reference to AfPS GS 2019:01 PAK, Analysis was performed by GC-MS.

Test Items	Unit	MDL	Test Results	
			2#	
Naphthalene	NDE	0.1	N.D.	
Phenanthrene		0.1	N.D.	
Anthracene		0.1	N.D.	
Fluoranthene		0.1	N.D.	
Pyrene		0.1	N.D.	
Benzo[a]anthracene	NDER	0.1	N.D.	
Chrysene		0.1	N.D.	
Benzo[b]fluoranthene		0.1	N.D.	
Benzo[k]fluoranthene	mg/kg	0.1	N.D.	
Benzo[a]pyrene		0.1	N.D.	
Indeno[1,2,3-cd]pyrene	DER	0.1	N.D.	
Dibenzo[a,h]anthracene	31415	0.1	N.D.	
Benzo[g,h,i]perylene		0.1	N.D.	
Benzo[j]fluoranthene		0.1	N.D.	
Benzo[e]pyrene		0.1	N.D.	
Sum of 15 PAHs	-B		N.D.	





Report No.: WDJ25090009ENR1 **Date:** Sep. 13, 2025 **Page:** 14 / 15

LIMITS(mg/kg) FOR PAH IN PRODUCTS:

Parameter	Category 1	Cateo	gory2	Categ	jory 3	
MEIS	Materials intended to	Materials not covered by		Materials not covered by		
DVI	be placed in the	category 1,	gory 1, coming into ca		category 1 nor by category	
	mouth, or materials in	long-term contact (more than		2, coming into short-term		
	toys according to	30s) or short-term repetitive		contact (up to 30s) with skii		
	Directive 2009/48/EC	contact with skin during the		during the intended or		
	or materials in articles intended or foreseeable use		foreseeable use			
-13	for the use by children			-13		
NDE	up to 3 years of age					
	coming into long-term	a. use by	b. other	a. use by	b. other	
	contact with skin	children	consumer	children	consumer	
	(more than 30s)	EK	products		products	
	during the intended					
Naphthalene	use <1	< 2		< 10		
Phenanthrene			-1.10	IDE		
Anthracene	Total < 1	Total < 5	Total < 10	Total < 20	Total < 50	
Fluoranthene	Total VI	Total 13	10tal < 10	10(a) \ 20	Total < 50	
Pyrene	WON					
Benzo[a]anthracene	< 0.2	< 0.2	< 0.5	< 0.5	< 1	
Chrysene	< 0.2	< 0.2	< 0.5	< 0.5	< 1	
Benzo[b]fluoranthen	< 0.2	< 0.2	< 0.5	< 0.5	< 1	
Benzo[k]fluoranthene	< 0.2	< 0.2	< 0.5	< 0.5	<1	
Benzo[a]pyrene	< 0.2	< 0.2	< 0.5	< 0.5	<1	
Indeno[1,2,3-cd]pyre	< 0.2	< 0.2	< 0.5	< 0.5	<1	
Dibenzo[a,h]anthrac	< 0.2	< 0.2	< 0.5	< 0.5	<1	
Benzo[g,h,i]perylene	< 0.2	< 0.2	< 0.5	< 0.5	<1	
Benzo[j]fluoranthene	< 0.2	< 0.2	< 0.5	< 0.5	< 1	
	< 0.2	< 0.2	< 0.5	< 0.5	< 1	
Benzo[e]pyrene						







Report No.: WDJ25090009ENR1 **Date:** Sep. 13, 2025 **Page:** 15 / 15

Note: 1. mg/kg = milligrams per kilograms;

2. MDL= method detection limit;

3.N.D. = not detected, < MDL

4. "▲" =Mixed test

5.All items in this report are subcontracted items. 6.WDJ25090009EN is replaced by this report.

Photo(s) of Sample(s):



MOB / KC4861
PO BOX 644
6710 BP (NL)
PO:41-116926
Made in China
www.momanual.com
Warning. Not suitable for
children under 3 years.
Small parts. choking hazard!

Plastic sliding puzzle

End of Report

GUANGDONG WONDER TESTING INTERNATIONAL CO., LTD.

Floor 6, No.14,Gaoxin Road, Huadu District, Guangzhou City,Guangdong Province, China, 510820
E-mail: wd@wdwonder.com Tel: 86-020-8689 0001
Fax: 86-020-8689 6998 Website: http://www.wdwonder.com



Report Remark

- 1. The company guarantees the scientificity, impartiality and accuracy, is responsible for test data, and keeps confidential for the samples and technical data provided.
- 2. The information of the samples submitted for inspection is provided by applicant, and the company is not responsible for its authenticity or integrity.
- 3. The results shown in this report refer only to the sample(s) submitted.
- 4. This report is invalid without signature of approver, is invalid if not affixed with Authorized Stamp of Test and Paging Seal. The data/results in reports without an CMA stamp are not in the accredited scope of CMA cannot be as domestic social impartiality proof data. It can only used for research and development, teaching, internal quality control, and only for internal reference.
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- 6. If there are any questions about the report, please contact us.
- 7. Any dispute of this report must be raised to the center within 10 workdays since the date of receipt, or it will not be accepted.
- 8. For samples with unstable performance, re-inspection will not be accepted.

CONTACT US

Company Name: GUANGDONG WONDER TESTING INTERNATIONAL CO., LTD.

Contact Address: Floor 6, No.14, Gaoxin Road, Huadu District, Guangzhou City, Guangdong

Province, China

Tel: 86-020-8689 0001

Fax: 86-020-8689 6998

Post Code: 510820

Website: http://www.wdwonder.com



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