

# TEST REPORT

<u>Applicant</u>	: TIANJIN XINGWO IMPORT AND EXPORT TRADING Co., Ltd.
<u>Address</u>	: ROOM 205, 2ND FLOOR, COMPREHENSIVE BUILDING, NO.412 TENGFEI ROAD, HAIBIN STREET, BINHAI NEW AREA, TIANJIN
<u>Sample description</u>	: Wooden bookshelf/MDF/90X80X40cm
<u>Item no.</u>	: US24CS012WH
<u>PO no.</u>	: W2876-20240923-001
<u>Manufacturer</u>	: TIANJIN XINGWO IMPORT AND EXPORT TRADING Co., Ltd.
<u>Buyer name</u>	: TMALL, INC.
<u>Country of destination</u>	: USA
<u>Country of origin</u>	: China
<u>Age requested on application form</u>	: 3-12 Years
<u>Labelled age grade</u>	: 3-12 Years
<u>Age grade applied in testing</u>	: 3-12 Years
<u>Sample received date</u>	: 06-Nov-2024
<u>Further information date</u>	: 19-Nov-2024
<u>Turn around time</u>	: 06-Nov-2024 To 20-Nov-2024
<u>Revised date</u>	: 21-Nov-2024

Samples are obtained by express delivery. Results obtained refer only to samples, products or material received in Laboratory, as described in point related to sample description, and tested in conditions shown in present report. Eurofins MTS Consumer Product Testing (Shanghai) Co., Ltd ensures that this job has been performed according to our Quality System and complying contract and legal conditions. If you happen to have any comments, please do it by sending email to [info.sh@cpt.eurofinscn.com](mailto:info.sh@cpt.eurofinscn.com) and referring to this report number. Reproduction of this document is only valid if it is done completely and under the written permission of Eurofins MTS Consumer Product Testing (Shanghai) Co., Ltd. If you happen to have any complaints, please do it by sending email to [info.sh@cpt.eurofinscn.com](mailto:info.sh@cpt.eurofinscn.com) and referring to this report number.



The following test item(s) was/were performed on selected sample(s) and/or component(s) confirmed by applicant

TEST REQUESTED	TEST METHOD/REGULATION	RESULT
Physical and Mechanical Hazards	ASTM F963-23	Pass
Flammability of Toys	ASTM F963-23	Pass
Phthalates Content	ASTM F963-23	Pass
Heavy Metals	ASTM F963-23	Pass
Total Lead Content in Substrate	US CPSIA, Section 101	Pass
Phthalates Content	US CPSIA, Section 108	Pass
Total Lead Content in Paint / Surface Coating	US CPSIA, Section 101	Pass
Phthalates Content	CPSC 16 CFR part 1307	Pass
Tracking Label Assessment	US CPSIA, Section 103	Pass
Total Lead Content in Paint and Similar Surface-coating Materials	US 16 CFR 1303	Pass
Physical and Mechanical Hazards	CPSC Regulations	Pass

**Note :** This report cancels and supersedes report number EFW524110979-CG-01 issued on Nov 20<sup>th</sup>, 2024.  
 Modification description: as per client's request, issue report under CNAS accreditation.

\*\*\*\*\* FOR FURTHER DETAILS, PLEASE REFER TO THE FOLLOWING PAGE(S) \*\*\*\*\*

Signed for and on behalf of  
 Eurofins MTS Consumer Product Testing (Shanghai) Co., Ltd.



David Gao  
 Toy Senior Manager SLTH



Eurofins MTS Consumer Product Testing (Shanghai) Co., Ltd.

Linda Jin  
 Assistant Lab Manager CG



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**SAMPLE PHOTO(S)**



**EFW524110979-CG-01+Rev 1**

\*\*\*TO BE CONTINUED\*\*\*

## COMPONENT LIST

Component No.	Component	Sample No.
1	White coating on wood	A
2	Semi-transparent plastic (screws)	A
3	White plastic (piping)	A
4	Black plastic	A
5	Beige fabric	A
6	Brown MDF wood excluding coating	A
7	Natural color wood excluding coating	A
8	Multi-color plated metal	A
9	Silver metal	A

\*\*\*TO BE CONTINUED\*\*\*

## **TEST RESULT**

### **Physical and Mechanical Hazards**

Test Request: As specified in Consumer Safety Specification ASTM F963-23  
 Test Sample: A

Section	Description	Result
4.1	Material Quality	P
4.3.7	Stuffing Materials	N/A
4.5	Sound-Producing Toys	N/A
4.6	Small Objects	P
4.6.1	Toys that are intended for children under 36 months of age	N/A
4.6.2	Mouth-Actuated Toys	N/A
4.6.3	Toys that are intended for children over 36 months but less than 72 months	P
4.7	Accessible Edges	P
4.8	Projections	N/A
4.8.1	Bath Toy Projections	N/A
4.9	Accessible Points	P
4.10	Wires or Rods	N/A
4.11	Nails and Fasteners	P
4.12	Plastic Film	N/A
4.13	Folding Mechanisms and Hinges	N/A
4.14	Cords, Straps and Elastics	N/A
4.15	Stability and Over-Load Requirements	P
4.16	Confined Spaces	N/A
4.17	Wheels, Tires, and Axles	N/A
4.18	Holes, Clearances, and Accessibility of Mechanisms	N/A
4.19	Simulated Protective Devices	N/A
4.20	Pacifiers	N/A
4.21	Projectile Toys	N/A
4.22	Teethers and Teething Toys	N/A
4.23	Rattles	N/A
4.24	Squeeze Toys	N/A
4.25	Battery-Operated Toys (exclude section 4.25.9 Battery-powered ride-on toys and section 4.25.10 Toys contain secondary cells or secondary batteries)	N/A
4.26	Toys Intended to be Attached to a Crib or Playpen	N/A
4.27	Stuffed and Beanbag-Type Toys	N/A
4.28	Stroller and Carriage Toys	N/A
4.30	Toy Gun Marking	N/A
4.31	Balloons	N/A
4.32	Certain Toys with Nearly Spherical Ends	N/A
4.33	Marbles	N/A
4.34	Balls	N/A
4.35	Pompoms	N/A
4.36	Hemispheric-Shaped Objects	N/A
4.37	Yo Yo Elastic Tether Toys	N/A
4.38	Magnets	N/A
4.39	Jaw Entrapment in Handles and Steering Wheels	N/A
4.40	Expanding Materials	N/A

\*\*\*TO BE CONTINUED\*\*\*

## TEST RESULT

Section	Description	Result
4.41	Toy Chests	N/A
5	Labeling Requirements	
5.1	Federal Government Requirements	P
5.2	Age Grading Labeling	P
5.3	Safety Labeling Requirements	P
5.4	Aquatic Toys	N/A
5.5	Crib and Playpen Toys	N/A
5.6	Mobiles	N/A
5.7	Stroller and Carriage Toys	N/A
5.8	Toys Intended to be Assembled by an Adult	N/A
5.9	Simulated Protective Devices	N/A
5.10	Toys with Functional Sharp Edges or Points	N/A
5.11	Small Objects, Small Balls, Marbles and Balloons	P
5.12	Art Materials	N/A
5.13	Electric Toys	N/A
5.14	Battery-Operated Toys	N/A
5.14.1	Battery-Powered Ride-On Toys	N/A
5.14.2	Button or Coin Cell Batteries	N/A
5.15	Promotional Materials	P
5.16	Magnets	N/A
6	Instructional Literature	
6.1	Definition and Description	N/A
6.2	Crib and Playpen Toys	N/A
6.3	Mobiles	N/A
6.4	Toys Intended to be Assembled by an Adult	N/A
6.5	Battery-Operated Toys	N/A
6.6	Battery Powered Ride-On Toys	N/A
6.7	Toys in Contact with Food	N/A
6.8	Toy Chests	N/A
6.9	The instructional material for toys which require a manufacturer-supplied specialty or custom tool to access the battery (ies)	N/A
7	Producer's Markings	
7.1	Producer's or Distributor's Name and Address	P
7.2	Battery-Powered Ride-on Toys	N/A
7.3	Toy Chests	N/A

**Remark:**

P-Pass, F- Fail, N/A-Not Applicable, N/C-Not conduct as per client's request

\*\*\*TO BE CONTINUED\*\*\*

## TEST RESULT

### Flammability of Toys

Test Request: As specified in ASTM F963-23, Section 4.2, testing procedure for materials other than textiles (excluding paper) used in toys is contained in Annex A5. As specified in ASTM F963-23, Section 4.2, testing procedure for textile fabrics used in toys is contained in Annex A6

Sample	Limit	Result
A	0.1 inch/second	P

Sample	Limit	Result
Beige fabric	3.5 sec or greater for plain surface fabric	DNI

**Remark:**

P-Pass, F- Fail, N/A-Not Applicable

DNI=Did not ignite.

\*\*\*TO BE CONTINUED\*\*\*

## TEST RESULT

### Phthalates Content

Test Request: Phthalates Content in Toys (including pacifiers, rattles, and teethers) Material (ASTM F963-23, Section 4.3.8)  
Test Method: CPSC-CH-C1001-09.4

Test Item(s)	CAS No.	Unit	Limit	MDL	Result	
					1	2
Diisobutyl phthalate (DINP)	28553-12-0	%	0.1	0.005	ND	ND
Di-n-pentyl phthalate (DPENP)	131-18-0	%	0.1	0.005	ND	ND
Di-n-hexyl phthalate (DHEXP)	84-75-3	%	0.1	0.005	ND	ND
Dicyclohexyl phthalate (DCHP)	84-61-7	%	0.1	0.005	ND	ND
Diisobutyl phthalate (DIBP)	84-69-5	%	0.1	0.005	ND	ND
Diethylhexylphthalate (DEHP)	117-81-7	%	0.1	0.005	ND	ND
Dibutylphthalate (DBP)	84-74-2	%	0.1	0.005	ND	ND
Benzylbutylphthalate (BBP)	85-68-7	%	0.1	0.005	ND	ND

### **Remarks:**

According to client's request, tests are combination tests. The experimental results are the total result of mixed samples.

MDL = method detection limit

ND = Not detected, less than MDL

As per client's request, only the appointed materials have been tested.

\*\*\*TO BE CONTINUED\*\*\*

## TEST RESULT

### Heavy Metals

1) ASTM F963-23- Heavy Elements – Total Lead in Paint and Similar Surface-Coating Material (Clause 4.3.5.1(1))  
 Test Method: ASTM International Standard ASTM F963-23, Section 8.3.1 and Annex A7.

Tested Item(s)	Unit	Limit	MDL	Result	
				1	
Total Lead in Paint	mg/kg	90	10	ND	

2) ASTM F963-23- Heavy Elements – Total Lead in Substrate Material (Clause 4.3.5.2(2) (a))  
 Test Method: ASTM International Standard ASTM F963-23, Section 8.3.1 and Annex A7.

Tested Item(s)	Unit	Limit	MDL	Result		
				2	4	6
Total Lead in Substrate	mg/kg	100	10	ND	ND	ND

Tested Item(s)	Unit	Limit	MDL	Result		
				7	8	9
Total Lead in Substrate	mg/kg	100	10	ND	ND	ND

3) ASTM F963-23- Heavy Elements – Total Elements Content, Initial Screening for Soluble Migrated Elements Content in Surface Coatings and Substrates Other Than Modeling Clay(Clause 4.3.5.1(2) and 4.3.5.2(2)(b))

Test Method: ASTM International Standard ASTM F963-23, Section 8.3.1 and Annex A7.

Tested Item(s)	Unit	Limit	MDL	Result				
				1	2	3	4	5
Total Antimony	mg/kg	60	5	ND	ND	ND	244*	ND
Total Arsenic	mg/kg	25	5	ND	ND	41*	106*	ND
Total Barium	mg/kg	1000	10	966	297	ND	1.05x10 <sub>3</sub> *	ND
Total Cadmium	mg/kg	75	5	ND	ND	ND	ND	ND
Total Chromium	mg/kg	60	5	ND	ND	ND	92*	ND
Total Lead	mg/kg	90	10	ND	ND	2.07x10 <sub>3</sub> *	ND	ND
Total Mercury	mg/kg	60	5	ND	ND	ND	ND	ND
Total Selenium	mg/kg	500	10	ND	ND	ND	ND	ND

Tested Item(s)	Unit	Limit	MDL	Result	
				6	7
Total Antimony	mg/kg	60	5	ND	ND
Total Arsenic	mg/kg	25	5	ND	ND
Total Barium	mg/kg	1000	10	43	ND
Total Cadmium	mg/kg	75	5	ND	ND
Total Chromium	mg/kg	60	5	ND	ND
Total Lead	mg/kg	90	10	ND	ND
Total Mercury	mg/kg	60	5	ND	ND
Total Selenium	mg/kg	500	10	ND	ND

\*\*\*TO BE CONTINUED\*\*\*

## TEST RESULT

4) ASTM F963-23- Heavy Elements – Soluble Migrated Elements Content in Surface Coatings and Substrates Other Than Modeling Clay (Clause 4.3.5.1(2) and 4.3.5.2(2)(b))

Test Method: ASTM International Standard ASTM F963-23, Section 8.3.2 to 8.3.5 (excluding 8.3.5.5(3))

Tested Item(s)	Unit	Limit	MDL	Result	
				3	4
Soluble Antimony	mg/kg	60	5	ND	ND
Soluble Arsenic	mg/kg	25	5	ND	ND
Soluble Barium	mg/kg	1000	10	ND	ND
Soluble Cadmium	mg/kg	75	5	ND	ND
Soluble Chromium	mg/kg	60	5	ND	ND
Soluble Lead	mg/kg	90	10	41	ND
Soluble Mercury	mg/kg	60	5	ND	ND
Soluble Selenium	mg/kg	500	10	ND	ND

**Remark:**

mg/kg = milligram per kilogram

MDL = method detection limit

ND = Not detected, less than MDL

The analytical results were adjusted by subtracting analytical correction factor.

\* On the initial analysis for soluble heavy metals content, any tested component of greater than the set limit, the result is inconclusive for the requirement and therefore were retested with soluble heavy metals analysis of ASTM F963-23, Sections 8.3.2 to 8.3.5 as specified in Section 8.3.1.3. The result herein is for reference only (show data), please refer to soluble heavy metals content analysis for the corresponding conclusive results.

According to Section 8.3.1.3, if results of total eight elements are below soluble limits for each element as prescribed in the table, the material can be considered to conform to requirements of 4.3.5.1(2) or 4.3.5.2(2)(b), or both, without further testing.

As per client's request, only the appointed materials have been tested.

\*\*\*TO BE CONTINUED\*\*\*

## TEST RESULT

### Total Lead Content in Substrate

Test Request: Total lead in substrate as specified in US Consumer Product Safety Improvement Act 2008 (CPSIA), Section 101 (15 U.S.C. § 1278a).

Test Method: CPSC-CH-E1001-08.3 for metal product, CPSC-CH-E1002-08.3 for nonmetal product. The sample was acid digested, and total lead content was determined by ICP-OES.

Test Item(s)	Unit	Limit	MDL	Result	
				2	4
Total Lead (Pb)	mg/kg	100	10	ND	ND

Test Item(s)	Unit	Limit	MDL	Result		
				6+7	8	9
Total Lead (Pb)	mg/kg	100	10	ND	ND	ND

**Remark:**

According to client's request, tests are combination tests. The experimental results are the total result of mixed samples.

mg/kg = milligram per kilogram

MDL = method detection limit

ND = Not detected, less than MDL

As per client's request, only the appointed materials have been tested.

### Phthalates Content

Test Request: Phthalates Content as specified in US Consumer Product Safety Improvement Act 2008 (CPSIA), Section 108

Test Method: CPSC-CH-C1001-09.3

Test Item(s)	CAS No.	Unit	Limit	MDL	Result	
					1	
Dibutylphthalate (DBP)	84-74-2	%	0.1	0.005	ND	
Benzylbutylphthalate (BBP)	85-68-7	%	0.1	0.005	ND	
Diethylhexylphthalate (DEHP)	117-81-7	%	0.1	0.005	ND	
Di-n-octylphthalate (DNOP)	117-84-0	%	0.1	0.005	ND	
Diisononylphthalate (DINP)	28553-12-0	%	0.1	0.005	ND	
Diisodecylphthalate (DIDP)	26761-40-0	%	0.1	0.005	ND	

**Remarks:**

According to client's request, tests are combination tests. The experimental results are the total result of mixed samples.

MDL = method detection limit

ND = Not detected, less than MDL

As per client's request, only the appointed materials have been tested.

\*\*\*TO BE CONTINUED\*\*\*

## TEST RESULT

### Total Lead Content in Paint / Surface Coating

Test Request: Total lead in paint/ similar surface coatings as specified in US Consumer Product Safety Improvement Act 2008 (CPSIA), Section 101 (15 U.S.C. § 1278a).

Test Method: CPSC-CH-E1003-09.1  
The sample was acid digested, and total lead content was determined by ICP-OES.

Test Item(s)	Unit	Limit	MDL	Result	
				1	ND
Total Lead (Pb)	mg/kg	90	10		

**Remark:**

mg/kg = milligram per kilogram

MDL = method detection limit

ND = Not detected, less than MDL

\*\*\*TO BE CONTINUED\*\*\*

## TEST RESULT

### Phthalates Content

Test Request: Prohibition of Children's Toys and Child Care Articles Containing Specified Phthalates as specified in CPSC 16 CFR part 1307.  
Test Method: CPSC-CH-C1001-09.4

Test Item(s)	CAS No.	Unit	Limit	MDL	Result	
					1	2
Diisononylphthalate (DINP)	28553-12-0	%	0.1	0.005	ND	ND
Di-n-pentyl phthalate (DPENP)	131-18-0	%	0.1	0.005	ND	ND
Di-n-hexyl phthalate (DHEXP)	84-75-3	%	0.1	0.005	ND	ND
Dicyclohexyl phthalate (DCHP)	84-61-7	%	0.1	0.005	ND	ND
Diisobutyl phthalate (DIBP)	84-69-5	%	0.1	0.005	ND	ND
Diethylhexylphthalate (DEHP)	117-81-7	%	0.1	0.005	ND	ND
Dibutylphthalate (DBP)	84-74-2	%	0.1	0.005	ND	ND
Benzylbutylphthalate (BBP)	85-68-7	%	0.1	0.005	ND	ND

### **Remarks:**

According to client's request, tests are combination tests. The experimental results are the total result of mixed samples.

MDL = method detection limit

ND = Not detected, less than MDL

As per client's request, only the appointed materials have been tested.

\*\*\*TO BE CONTINUED\*\*\*

## **TEST RESULT**

### **Tracking Label Assessment**

Test Request: As per Consumer Product Safety Improvement Act (CPSIA) 2008 section 103 tracking labels for children products  
Test Sample: A

<b>Labeling Content</b>	<b>Observation Result</b>	<b>Location</b>	<b>Conclusion</b>
Name of Manufacturer/ Import / Private Labeler in the tracking label	Present	Packaging Product	Pass
Location of production	Present	Packaging Product	Pass
Date of production	Present	Packaging Product	Pass
Cohort information (including the batch, run number, or other identifying characteristic)	Present	Packaging Product	Pass

**Remark:**

The tracking label assessment was based on the submitted sample and the information provided by the applicant. There was no verification on the validity of such information.

\*\*\*TO BE CONTINUED\*\*\*

## **TEST RESULT**

### **Total Lead Content in Paint and Similar Surface-coating Materials**

Test Request: Total lead content as specified in US 16 CFR 1303

Test Method: CPSC-CH-E1003-09.1

The sample was acid digested, and total lead content was determined by ICP-OES.

Test Item(s)	Unit	Limit	MDL	Result	
				1	ND
Total Lead (Pb)	mg/kg	90	10		ND

**Remark:**

mg/kg = milligram per kilogram

MDL = method detection limit

ND = Not detected, less than MDL

\*\*\*TO BE CONTINUED\*\*\*

## TEST RESULT

### Physical and Mechanical Hazards

Test Request: The Mechanical Hazards Requirements of 16 CFR 1500, after Use and Abuse Tests.  
Test Sample: A

Section	Description	Result
16 CFR 1501	Small Parts	N/A
16 CFR 1500.48	Sharp Points	P
16 CFR 1500.49	Sharp Edges	P
16 CFR 1510	Rattles	N/A
16 CFR 1511	Pacifier	N/A

**Remark:**

P - Pass, N/A - Not Applicable

The use and abuse tests conducted are:

As Received & Normal Use (1500.50)

Impact Test (1500. 53(b))

Torque Test (1500. 53(e))

Tension Test (1500. 53(f))

\*\*\*END OF THE REPORT\*\*\*