



中国认可
国际互认
检测
TESTING
CNAS L3791



鶴山利奧計量檢測服務有限公司
HESHAN LEO METROLOGY AND TESTING SERVICES CO. LTD.

Test Report

Report No.: HSTR17090033TA

Date: Sep 13, 2017

Leo Paper Products Ltd.

Level 9, Telford House, 16 Wang Hoi Road, Kowloon Bay, Kowloon, Hong Kong

Heshan Astros Printing Ltd

Xuantan Temple Industry District Gu Lao Town Heshan City Guangdong Province China

Sample and Information Supplied By Client As:

Item name by client	: NY15222 LOBLOLLY BB	Quantity of sample	: 5 Pieces
Sample description by lab	: 5 pcs paperboard book	Exported to	: US/Canada/ EU
SKU/JOB NO.	: S1718834	Tested age	: 0-3 YEARS
Request age grading	: 0-3 YEARS		
Age Group Assessed As	: 0-3 YEARS		
Per Age Guideline			
Sample receiving date	: Sep 7, 2017		
Testing period	: Sep 7, 2017 - Sep 13, 2017		

Test Request

- ASTM F963-16: Physical & Mechanical Tests
- ASTM F963-16: Flammability test of materials other than textile materials
- ASTM F963-16 Section 4.3.5 Heavy Elements
- U.S. Consumer Product Safety Improvement Act 2008 (H.R. 4040) Title I, Section 101 for Total Lead Content in Surface Coatings
- U.S. Consumer Product Safety Improvement Act 2008 (H.R. 4040) Title I, Section 101 for Total Lead Content in Accessible Substrate
- U.S. Consumer Product Safety Improvement Act 2008 (H.R. 4040), Title I, Section 108 for Phthalates Content

Conclusion

PASS
PASS
PASS
PASS
Not Applicable
(See Remark)
PASS

Remark: All accessible components were found to be within the exemption list under 16 CFR 1500.91, no test was conducted on the submitted sample.

For further details, please refer to the following page(s)

Signed For And On Behalf Of LEO MTS Co Ltd.:

Youshan Rao
Supervisor

RuiRong Liang
Supervisor



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Tests Conducted:

1. Physical and Mechanical Tests

As specified in ASTM F963-16 Standard Consumer Safety Specification on Toys Safety.

Section	Description	Result
4	General requirements	
4.1	Material Quality (visual check on cleanliness)	Pass
4.6	Small Objects	
4.6.1	Toys that are intended for children under 36 months of age	Pass
4.7	Accessible Edges	Pass
4.9	Accessible Points	Pass
5	Safety Labeling Requirements	
5.2	Age Grading Labeling Remark: Toys that are subject to any of the requirements of this specification should be labeled to indicate the minimum age for intended use or have such labeling on any retail packaging.	See Remark
6	Instructional Literature	
6.1	Definition and Description	Pass
7	Producer's Markings	
7.1	Producer's Markings	Pass
8	Test Methods	
8.5	Normal Use Testing	Pass
8.7	Impact Tests	Pass
8.8	Torque Tests for Removal of Components	Pass
8.9	Tension Test for Removal of Components	Pass
8.10	Compression Test	Pass

2. Flammability Test

As specified in section 4.2 of ASTM F963-16 Standard Consumer Safety Specification on Toys Safety, the sample was tested according to Annex A5 Flammability Testing Procedure for Solids and Soft Toys.

Requirement: The burn rate shall not exceed 0.1in. per second.

Result: The book ignited but self-extinguished, the most severe burn rate is 0.01 in. / s.

3. Total Lead (Pb) Content

As per section 4.3.5.1(1) of the ASTM F963-16, test method CPSC-CH-E1003-09.1 was used, and total lead content was determined by Inductively Coupled Plasma Optical Emission Spectrometer.

Test Component	Result (mg/kg)	Limit (mg/kg)
Surface coating		
(1)	ND	90

Remark:

- ND = Not Detected (Less Than Detection Limit)
- mg/kg = milligram per kilogram
- Detection Limit of Total Lead (Pb) =10 mg/kg



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4. Soluble Heavy Elements Analysis

As per section 4.3.5.1(2) of the ASTM F963-16, with reference to Clause 8.3 of ASTM F963-16, analysis was performed by Inductively Coupled Plasma Optical Emission Spectrometer.

Element	Result In (mg/kg)	MDL (mg/kg)	Limit (mg/kg)
	(1)		
Soluble Barium (Ba)	ND	5	1000
Soluble Lead (Pb)	ND	5	90
Soluble Antimony (Sb)	ND	5	60
Soluble Cadmium (Cd)	ND	5	75
Soluble Chromium (Cr)	ND	5	60
Soluble Arsenic (As)	ND	5	25
Soluble Selenium (Se)	ND	5	500
Soluble Mercury (Hg)	ND	5	60

Remark:

- ND = Not Detected (Less Than MDL)
- mg/kg = milligram per kilogram

5. Total Lead (Pb) Content in Surface Coating Materials (CPSIA Section 101)

As per U.S. CPSIA2008 (H.R. 4040), Title I, Section 101 for children's products containing lead, test method CPSC-CH-E1003-09.1 was used and analysis was determined by Inductively Coupled Plasma Optical Emission Spectrometer.

Element	Result In (mg/kg)	MDL (mg/kg)	Limit (mg/kg)
	(1)		
Total Lead (Pb)	ND	10	90

Remark:

- ND = Not Detected (Less Than MDL)
- mg/kg = milligram per kilogram

6. Phthalates Content (CPSIA Section 108)

The specimen is extracted with method of CPSC-CH-C1001-09.3, and analyzed by Gas Chromatography / Mass Spectrometry.

Test Items		Result In (%)	Detection Limit	Limit
		(1)		
Dibutyl Phthalate	DBP	ND	0.005%	0.1%
Benzyl Butyl Phthalate	BBP	ND	0.005%	0.1%
Bis-(2-Ethylhexyl) Phthalate	DEHP	ND	0.005%	0.1%
Di-"Isononyl" Phthalate	DINP	ND	0.010%	0.1%
Di-N-Octyl Phthalate	DNOP	ND	0.010%	0.1%
Di-"Isodecyl" Phthalate	DIDP	ND	0.010%	0.1%

Note:

- ND = Not Detected (Less Than Detection Limit)
- % = Percentage By Weight





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Tested components:

- (1) Multi-color coating on paperboard of book

Sample Photo:



*****End Of Report*****

Note:

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