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**Client:** BELEDUC LERNSPIELWAREN GMBH  
Heinrich-Heine-Weg 2 09526 Olbernhau Germany

**Test item(s):** Toy

**Identification/** Refer to detail list

**Model No(s):**

**Sample Receiving date:** 2017-07-27

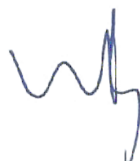
**Testing Period:** 2017-07-27 - 2017-08-08

<b>Test Specification:</b>	<b>Test result:</b>
1. ASTM F963-16: Mechanical and physical	PASS
2. ASTM F963-16: Flammability on solids and soft toys	PASS
3. CPSIA Sect 103: Tracking label	PASS
4. ASTM F963-16 Sect. 4.3.5.1 and 4.3.5.2 : Soluble heavy metal	PASS
5. ASTM F963-16 Sect. 4.3.5.2 and CPSIA Sect. 101 : Total lead content in substrate materials	PASS
6. ASTM F963-16 Sect. 4.3.5.1 and CPSIA Sect 101: Total lead content in paint and coating materials	PASS

**Other information:**

Packaging provided: Yes  
The provided age grade of the item: Over 36 months.  
The appropriate age grade of the item: Over 36 months.  
The item was tested over 36 months.

For and on behalf of  
TÜV Rheinland (Shanghai) Co., Ltd.



2017-08-09 Wice Wang / Department Manager

*Date* *Name/Position*

*Test result is drawn according to the kind and extent of tests performed.  
This test report relates to the a. m. test sample. Without permission of the test center this test report is not permitted to be duplicated in extracts. This test report does not entitle to carry any safety mark on this or similar products.*

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Item NO.	Description English	Age group
17053(B17053)	Layer puzzle frog	36M+
17054(B17054)	Layer puzzle butterfly	36M+
23610(B23610)	Wall element labyrinth	36M+
23628(B23628)	wall element "3 in a row"	36M+
25512(B25512)	XXL Torreta	36M+

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**Material List:**

Item: Refer to detail list

Material No.	Material	Color	Location	Remark
M001	Whole Product	Multi-color	17053(B17053)	
M002	Whole Product	Multi-color	17054(B17054)	
M003	Whole Product	Multi-color	23610(B23610)	
M004	Whole Product	Multi-color	23628(B23628)	
M005	Whole Product	Multi-color	25512(B25512)	
M006	Coating	Multi-color	Pattern on puzzle, 17053	
M007	Coating	Black	On wood	
M008	Coating	Multi-color	Pattern on puzzle, 17054	
M009	Coating	Orange red	On wood	
M010	Coating	Smoke blue	On wood	
M011	Paper + printing	White/Black	Instruction, 25512/23610/23628	
M012	Plastic + printing + adhesive	Transparent/Black	Sticker, 23610/23628	
M013	Paper + printing	Multi-color	Paper cards, 23628	
M014	Paper	Grey	Paper board(cards), 23628	
M016	Wood	Nature	Plywood	Refer to 0154250380/M005
M017	Wood	Nature	MDF	Refer to 0154250380/M006
M018	Coating	Yellow	On wood	Refer to 0154253354/M015
M019	Coating	Red	On wood	Refer to 0154253354/M003
M020	Coating	Dk.green	On wood	Refer to 0154250380/M020

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M021	Coating	White	On wood	Refer to 0154253354/M005
M022	Coating	Transparent	On wood	Refer to 0154253354/M008
M023	Coating	Lt.green	On wood	Refer to 0154250380/M019
M024	Coating	Black/Red	On wood, 23610	
M025	Metal	Silver	Activity block, 23610/23628	
M026	Metal	Metallic	Big nail, 23610/23628	

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**1.ASTM F963-16: Mechanical and physical**

**Test result:**

Test No:	T001
Material No:	M001-M005
<b>4. Safety requirements</b>	
4.1 Material Quality (visual check)	PASS
4.7 Accessible edges	PASS
4.9 Accessible points	PASS
4.12 Plastic film	PASS*1
<b>5. Labeling requirements</b>	
5.8 Toys intended to be assembled by an adult	PASS*1
5.16 Promotional materials	PASS
<b>6. Instructional literature</b>	
6.1 Definition and description	PASS
6.4 Toys intended to be assembled by an adult	PASS*1
<b>7. Producer's markings</b>	
7.1 Name and address of the producer or the distributor	PASS

**Use and Abuse Tests:**

The submitted samples were undergone the use and abuse tests in accordance with FHSA 16 CFR and whichever is applicable the tested age grade.

Age Category	Impact Test	Flexure Test	Torque Test	Tension Test	Compression Test
0-18 Months 16 CFR 1500.51	10 x 4.5 ft	120 Arc 30 Cycles 10 lbs	2 in-lbs	10 lbs	20 lbs
19-36 Months 16 CFR 1500.52	4 x 3 ft	120 Arc 30 Cycles 15 lbs	3 in-lbs	15 lbs	25 lbs
37-96 Months 16 CFR 1500.53	4 x 3 ft	120 Arc 30 Cycles 15 lbs	4 in-lbs	15 lbs	30 lbs

The clause and/or sub-clause would be indicated only in the test report whichever applicable. The comprehensive result report is available upon request.

**Remark:**

\*1

This clause is only applicable to M004.

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**2.ASTM F963-16: Flammability on solids and soft toys****Test result:**

	Test No:	T001
	Material No:	M001-M005
<b>4.2 Flammability on solids and soft toys</b>		PASS

The burning rate of the most severe part = DNI

Note: Maximum permissible burning rate = 0.1 Inch/sec.

**Abbreviation:** DNI = Did Not Ignite / IBE = Ignite But Self-extinguish

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**3.CPSIA Sect 103: Tracking label**

**Test Result:**

	Test No:	T001
	Material No:	M001-M005
Present On Packaging		PASS
Present On Product		PASS

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**4.ASTM F963-16 Sect. 4.3.5.1 and 4.3.5.2 : Soluble heavy metal**

Test Method: For paint and similar surface-coating materials: ASTM F963-16 Section 8.3.2 - 8.3.4 Method to Dissolve Soluble Matter for Surface Coatings, Preparation of Test Samples and Test Procedures

For substrate: ASTM F963-16 Section 8.3.5 Soluble Element Test Method for Substrate Materials

This requirement applies to the coating and substrate materials which the sample weight is greater than 10 mg

<b>ASTM F963-16 Sect. 4.3.5.1 and 4.3.5.2</b>	<b>Soluble heavy metals</b>	<b>PASS</b>
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**Test Result:**

Test No.	Material No.	[mg/kg]							
		Sb	As	Ba	Cd	Cr	Pb	Hg	Se
		Maximum Permissible Limit of Any Toy Materials except Modelling Clay							
		60	25	1000	75	60	90	60	500
		Maximum Permissible Limit of Modelling Clay							
		60	25	250	50	25	90	25	500
		RL							
		2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
T001	M006(*2)	n.d.	n.d.	3.8	n.d.	n.d.	n.d.	n.d.	n.d.
T002	M007(*1) (*2)	n.d.	n.d.	16.3	n.d.	n.d.	n.d.	n.d.	n.d.
T003	M008(*2)	n.d.	n.d.	3.8	n.d.	n.d.	n.d.	n.d.	n.d.
T004	M009(*2)	n.d.	n.d.	77.0	n.d.	n.d.	n.d.	n.d.	n.d.
T005	M010(*2)	n.d.	n.d.	60.7	n.d.	n.d.	n.d.	n.d.	n.d.
T006	M011	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.
T007	M012	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.
T008	M013	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.
T009	M014(*2)	n.d.	n.d.	11.5	n.d.	n.d.	n.d.	n.d.	n.d.
T010	M016	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.
T011	M017(*2)	n.d.	n.d.	5.5	n.d.	n.d.	n.d.	n.d.	n.d.
T012	M018(*2)	n.d.	n.d.	2.5	n.d.	n.d.	n.d.	n.d.	n.d.
T013	M019	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.
T014	M020(*2)	n.d.	n.d.	29.5	n.d.	n.d.	n.d.	n.d.	n.d.
T015	M021	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.
T016	M022	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.
T017	M023	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.

**Abbreviation:** n.d. = Not Detected (< RL)  
 RL = Reporting Limit  
 mg/kg = milligram per kilogram



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**Remark:**

- \*1 The weight of test portion marked (\*1) available was less than 100 mg, but greater than 10 mg, so results were calculated as if 100 mg of the sample were available.
- \*2 The material is deemed comply with the requirement of ASTM F963 cl. 8.3.4.3 after analytical correction.

Element	<b>Sb</b>	<b>As</b>	<b>Ba</b>	<b>Cd</b>	<b>Cr</b>	<b>Pb</b>	<b>Hg</b>	<b>Se</b>
Analytical Correction (in %)	60	60	30	30	30	30	50	60

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**5.ASTM F963-16 Sect. 4.3.5.2 and CPSIA Sect. 101 : Total lead content in substrate materials**

Test Method: CPSC-CH-E1001-08.3 and CPSC-CH-E1002-08.3 (Microwave method)

**Test result**

<b>ASTM F963-16 Sect. 4.3.5.2</b>	<b>Total lead content</b> in substrate materials	<b>PASS</b>
<b>CPSIA Sect. 101</b>	<b>Total lead content</b> in substrate materials	<b>PASS</b>

Test No.	Material No.	Test Parameter	Unit	RL	Regulatory Requirement	Test Result
T001	M011	Lead Content	ppm	10	100	n.d.
T002	M012	Lead Content	ppm	10	100	n.d.
T003	M013	Lead Content	ppm	10	100	n.d.
T004	M016	Lead Content	ppm	10	100	n.d.
T005	M017	Lead Content	ppm	10	100	n.d.
T006	M025	Lead Content	ppm	10	100	n.d.
T007	M026	Lead Content	ppm	10	100	n.d.

**Abbreviation:** n.d. = Not Detected (< RL)  
 RL = Reporting Limit  
 ppm = parts per million

**Remark:**

\*1 Requirement according to Consumer Product Safety Improvement Act 2008 Public Law 110-314, section 101, is summarized below:

Effective Date	<b>Maximum Permissible Limit</b> Lead in accessible substrate materials
180 days after enactment/10 Feb 2009	600 ppm
1 year after enactment/14 Aug 2009	300 ppm
3 years after enactment/14 Aug 2011	100 ppm

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**6.ASTM F963-16 Sect. 4.3.5.1 and CPSIA Sect 101: Total lead content in paint and coating materials**

Test Method: CPSC-CH-E1003-09.1 (Microwave method)

**Test result**

<b>ASTM F963-16 Sect. 4.3.5.1</b>	Total lead content in paint and coating materials	<b>PASS</b>
<b>CPSIA Sect. 101</b>	Total lead content in paint and coating materials	<b>PASS</b>

Test No.	Material No.	Test Parameter	Unit	RL	Regulatory Requirement	Test Result
T001	M006	Lead Content	ppm	10	90	n.d.
T002	M008	Lead Content	ppm	10	90	n.d.
T003	M009	Lead Content	ppm	10	90	n.d.
T004	M010	Lead Content	ppm	10	90	n.d.
T005	M018	Lead Content	ppm	10	90	n.d.
T006	M019	Lead Content	ppm	10	90	n.d.
T007	M020	Lead Content	ppm	10	90	n.d.
T008	M021	Lead Content	ppm	10	90	n.d.
T009	M022	Lead Content	ppm	10	90	n.d.
T010	M023	Lead Content	ppm	10	90	n.d.
T011	M024	Lead Content	ppm	10	90	n.d.

**Abbreviation:** n.d. = Not Detected (< RL)  
 RL = Reporting Limit  
 ppm = parts per million

**Remark:**

\* 1 Requirement according to Consumer Product Safety Improvement Act 2008 Public Law 110-314, section 101, is summarized below:

Effective Date	<b>Maximum Permissible Limit</b> Lead in paint and similar surface coating
1 year after enactment/ 14 Aug 2009	90 ppm

Sample Photos



17053(B17053)



17054(B17054)



23610(B23610)



23628(B23628)



25512(B25512)

- END -