

**Test Report No.:** Q00139038-1

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**Customer:**

**Supplier's name:** N/A

**Test item(s):** Toy

**Identification / Model No(s):** benefiting-intelligence block  
Details please refer to page 2  
HL6110

**Sample Receiving Date:** 2015-10-06

**Delivery condition:** Apparent good, samples tested as received

**Test specification:**

*Customer requirement:*

EN 71 Part 1: 2011 Mechanical and physical properties

2009/48/EC CE Marking

2009/48/EC Labeling Requirement

(Importer / Manufacturer Mark, Product Identification, Washing / Cleaning instruction)

EN 71 Part 2: 2011 Flammability

EN 71 Part 3: 1994 + A1: 2000/AC: 2002: Migration of certain elements

BBP, DBP, DEHP content and DNOP, DINP, DIDP content

Total Cadmium Content

Total Lead Content

**Test result:**

Pass

Pass

Please refer to result page

Pass

Pass

Pass

Pass

Pass

**Other information:**

The provided age grade of the item(s): Over 6 years

The appropriate age grade of the item(s): Over 6 years

The item was tested for the age of over 6 years.

The laboratory TÜV Rheinland (Shanghai) Co., Ltd. meets requirements of the basic decision ZEK-GB-2002-01, whereby test reports in the context of a type approval, according Directive 2009/48/EC by the Notified Body TÜV Rheinland LGA Products Ltd. (Reg. No. 0197) can be recognized.

**For and on behalf of**  
**TÜV Rheinland**

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**Material list**

Material No.	Material	Color	Location	Refer to
1.	Plastic	Blue	Box	
2.	Plastic	White	Cover	
3.	Plastic	Red	Refer to photo	Q00139037-1 Mat. 4 EN71-3 Cd Pb 6P
4.	Plastic	Blue	Refer to photo	Q00139037-1 Mat. 5 EN71-3 Cd Pb 6P
5.	Plastic	Yellow	Refer to photo	Q00139037-1 Mat. 6 EN71-3 Cd Pb 6P
6.	Plastic	Green	Refer to photo	Q00139037-1 Mat. 7 EN71-3 Cd Pb 6P
7.	Plastic	Orange	Refer to photo	Q00139037-1 Mat. 8 EN71-3 Cd Pb 6P
8.	Plastic	Purple	Refer to photo	Q00139037-1 Mat. 9 EN71-3 Cd Pb 6P
9.	Plastic	Dark brown	Jacket of string	
10.	Textile	Blue	String	
11.	Textile	Green	String	
12.	Textile	Red	String	
13.	Textile	Yellow	String	
14.	Whole product	Multi-color	benefiting- intelligence block	

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**EN 71 Part 1: 2011 Mechanical and physical properties**

Test period: 2015-10-08 — 2015-10-15

	Test no.	
	Material no.	
		1
		14
<b>4</b>	<b>General requirements</b>	
4.1	Material cleanliness	P
4.7	Edges	P
4.8	Points and metallic wires	P
<b>5</b>	<b>Toys intended for children under 36 months</b>	N/A
<b>6</b>	<b>Packaging</b>	N/A
<b>7</b>	<b>Warnings, markings and instructions for use</b>	
7.1	General	P #1
7.2	Toys not intended for children under 36 months	P #1

N.B.: Only applicable clauses were shown.

**Remark:**

- #1 The applicant certified that they would print the warning statement as specified in clause 7.2 of EN71 part1 on the product or its packaging.

**2009/48/EC CE Marking**

Test period: 2015-10-08 — 2015-10-15

	Test no.	
	Material no.	
		1
		14
CE-marking		P

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**2009/48/EC Labeling Requirement**  
**(Importer / Manufacturer Mark, Product Identification, Washing / Cleaning instruction)**  
 Test period: 2015-10-08 — 2015-10-15

	Test no.
	Material no.
	1
	14
Importer / Manufacturer Mark(European Company name and address)	Absent #2
Product Identification – type, batch, serial or model number	Absent #2
Washing / Cleaning instruction	N/A
Food package	N/A
User limitations	N/A
Instruction of Hygiene	N/A

**Remark:**

- #2 The attention of the applicant was drawn to need for the item to be labeled with the following information shall be labeled with on the toy, if not possible, on its packaging or in a document accompanying the toy:
- (1) Manufacturer or Importer's name, registered trade name or registered trade mark and the address(European Company name and address)
  - (2) Toys shall bear a type, batch, serial or model number or other element allowing their identification.
- Only the English version and German version of the marking and instruction were assessed according to the standard, instruction and other texts required by the standard should be written in the official language(s) of the country in which the product is to be sold.

**Abbreviation:** N/A = Not Applicable  
 P = PASS

**EN 71 Part 2: 2011 Flammability**  
 Test period: 2015-10-08 — 2015-10-15

	Test no.
	Material no.
	1
	14
4.1 General	P

N.B.: Only applicable clauses were shown.

**Abbreviation:** P = PASS

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**EN 71 Part 3:1994 + A1:2000/AC: 2002: Migration of certain elements**

Test Method: Test portion was extracted with acid according to EN 71-3:1994 + A1:2000/AC: 2002

Test period: 2015-10-08 — 2015-10-15

Test result

Test No.	Material No.	mg/kg								Conclusion
		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	
1	1	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	Pass
2	2	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	Pass
3	3	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	Pass
4	4	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	Pass
5	5	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	Pass
6	6	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	Pass
7	7	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	Pass
8	8	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	Pass
9	9* <sup>1</sup>	n.d.	n.d.	7.1	n.d.	n.d.	n.d.	n.d.	n.d.	Pass
10	10	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	Pass
11	11	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	Pass
12	12	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	Pass
13	13	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	Pass

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

**Remark :**

\*1. This material is deemed to comply with the requirement of EN 71-3:1994 + A1:2000/AC: 2002 after analytical correction.

*Analytical Correction*

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

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**BBP, DBP, DEHP content and DNOP, DINP, DIDP content**

Test method: Organic solvent extraction, analyzed by GCMS

Test period: 2015-10-09- 2015-10-11

Test result

Parameter	CAS No.	Unit	RL	Test No.	1	2	3
				Material No.	1	2	3+4
				Regulatory requirement	Result	Result	Result
Dibutyl phthalate (DBP)	84-74-2	%	0.005	--	n.d.	n.d.	n.d.
Benzylbutyl phthalate (BBP)	85-68-7	%	0.005	--	n.d.	n.d.	n.d.
Diethylhexyl phthalate (DEHP)	117-81-7	%	0.005	--	n.d.	n.d.	n.d.
Sum (DBP+BBP+DEHP)		%	NA	0.1	n.d.	n.d.	n.d.
Di-n-octyl phthalate (DNOP)	117-84-0	%	0.005	--	n.d.	n.d.	n.d.
Diisodecyl phthalate (DIDP)	26761-40-0, 68515-49-1	%	0.005	--	n.d.	n.d.	n.d.
Diisononyl phthalate (DINP)	28553-12-0, 68515-48-0	%	0.005	--	n.d.	n.d.	n.d.
Sum (DNOP+DIDP+DINP)		%	NA	0.1	n.d.	n.d.	n.d.
Conclusion		%	NA		Pass	Pass	Pass

Parameter	CAS No.	Unit	RL	Test No.	4	5	6
				Material No.	5+6	7	8
				Regulatory requirement	Result	Result	Result
Dibutyl phthalate (DBP)	84-74-2	%	0.005	--	n.d.	n.d.	n.d.
Benzylbutyl phthalate (BBP)	85-68-7	%	0.005	--	n.d.	n.d.	n.d.
Diethylhexyl phthalate (DEHP)	117-81-7	%	0.005	--	n.d.	n.d.	n.d.
Sum (DBP+BBP+DEHP)		%	NA	0.1	n.d.	n.d.	n.d.
Di-n-octyl phthalate (DNOP)	117-84-0	%	0.005	--	n.d.	n.d.	n.d.
Diisodecyl phthalate (DIDP)	26761-40-0, 68515-49-1	%	0.005	--	n.d.	n.d.	n.d.
Diisononyl phthalate (DINP)	28553-12-0, 68515-48-0	%	0.005	--	n.d.	n.d.	n.d.
Sum (DNOP+DIDP+DINP)		%	NA	0.1	n.d.	n.d.	n.d.
Conclusion		%	NA		Pass	Pass	Pass

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Parameter	CAS No.	Unit	RL	Test No.	7
				Material No.	9
Regulatory requirement	Result				
Dibutyl phthalate (DBP)	84-74-2	%	0.005	--	n.d.
Benzylbutyl phthalate (BBP)	85-68-7	%	0.005	--	n.d.
Diethylhexyl phthalate (DEHP)	117-81-7	%	0.005	--	0.008
Sum (DBP+BBP+DEHP)		%	NA	0.1	0.008
Di-n-octyl phthalate (DNOP)	117-84-0	%	0.005	--	n.d.
Diisodecyl phthalate (DIDP)	26761-40-0, 68515-49-1	%	0.005	--	n.d.
Diisononyl phthalate (DINP)	28553-12-0, 68515-48-0	%	0.005	--	n.d.
Sum (DNOP+DIDP+DINP)		%	NA	0.1	n.d.
Conclusion		%	NA		Pass

**Abbreviation:** n.d. = not detected (< Reporting Limit)

RL = Reporting Limit

NA = Not Applicable

% = percentage

**Remark:**

\*1 Single components with an amount of <0.005% were not considered by the calculation of the sum.  
In the case of all 6 Phthalates were not detected, the result is stated n.d.

\*2 REACH regulation (EC) No. 1907/2006 and amendment no. 552/2009 Annex XVII Item 51 (formerly known as 2005/84/EC) on BBP, DBP and DEHP and Item 52 (formerly known as 2005/84/EC) on DNOP, DIDP and DINP are employed.

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**Total Cadmium Content**

Test method: EN 1122:2001 (method B)

Test period: 2015-10-08 — 2015-10-15

Test result

Test No.	Material No.	Test Parameter	Unit	RL	Regulatory requirement	Test Result	Conclusion
1	1	Trial 1	mg/kg	10	100	n.d.	Pass
		Trial 2	mg/kg	10	100	n.d.	
		Average	mg/kg	10	100	n.d.	
2	2	Trial 1	mg/kg	10	100	n.d.	Pass
		Trial 2	mg/kg	10	100	n.d.	
		Average	mg/kg	10	100	n.d.	
3	3+4	Trial 1	mg/kg	10	100	n.d.	Pass
		Trial 2	mg/kg	10	100	n.d.	
		Average	mg/kg	10	100	n.d.	
4	5+6	Trial 1	mg/kg	10	100	n.d.	Pass
		Trial 2	mg/kg	10	100	n.d.	
		Average	mg/kg	10	100	n.d.	
5	7	Trial 1	mg/kg	10	100	n.d.	Pass
		Trial 2	mg/kg	10	100	n.d.	
		Average	mg/kg	10	100	n.d.	
6	8	Trial 1	mg/kg	10	100	n.d.	Pass
		Trial 2	mg/kg	10	100	n.d.	
		Average	mg/kg	10	100	n.d.	
7	9	Trial 1	mg/kg	10	100	11	Pass
		Trial 2	mg/kg	10	100	12	
		Average	mg/kg	10	100	12	

**Abbreviation:** n.d. = not detected (< Reporting Limit)

RL = Reporting Limit

mg/kg = milligram per kilogram



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**Remark:**

\* Regulations on Cadmium

		<i>Maximum Permissible Limit</i>				
EU	Legislation	Plastic materials	Paint (wet state)	Paint on the painted articles	Paint (high zinc content)	Metal parts of jewellery and imitation jewellery articles and hair accessories
EC	REACH regulation (EC) No. 1907/2006, its amendment no. 552/2009 Annex XVII Item 23 (formerly known as 91/338/EEC) and (EU) No. 494/2011	100mg/kg	N.D.	1000mg/kg	1000mg/kg	100mg/kg

		<i>Maximum Permissible Limit</i>	
Country	Legislation	Paint, plastic, plating/coating of surface treatment	Paint (high zinc content)
United Kingdom	Statutory Instrument 1993 No. 1643 The Environmental Protection (Controls on Injurious Substances) (No. 2) Regulations	100mg/kg	1000mg/kg
Germany	Germany Chemikalien-Verbotsverordnung – ChemVerbotsV, Anhang Abschnitt 18, Okt 1993	100mg/kg	-
Switzerland	Switzerland Chemikalien-Risikoreduktions-Verordnung- ChemRRV, 814.81, 18 May 2005	100mg/kg	-

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**Total Lead Content**

Test method: Acid digestion, analyzed by ICP-OES / AAS

Test period: 2015-10-08 ———2015-10-15

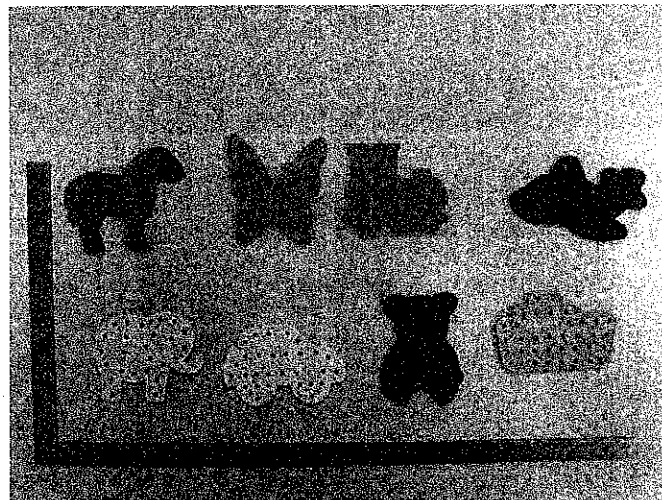
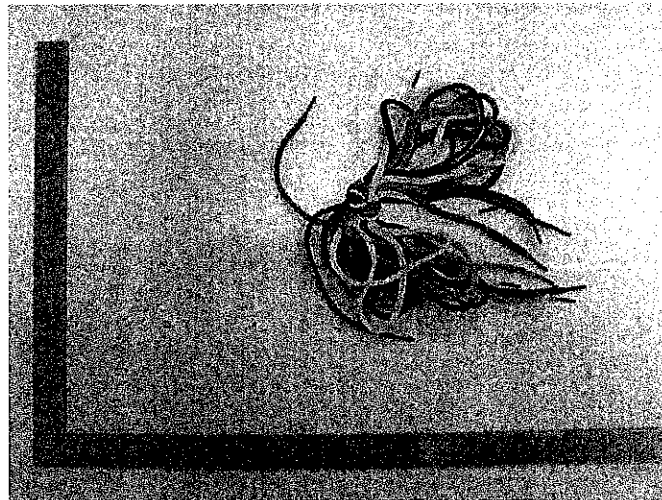
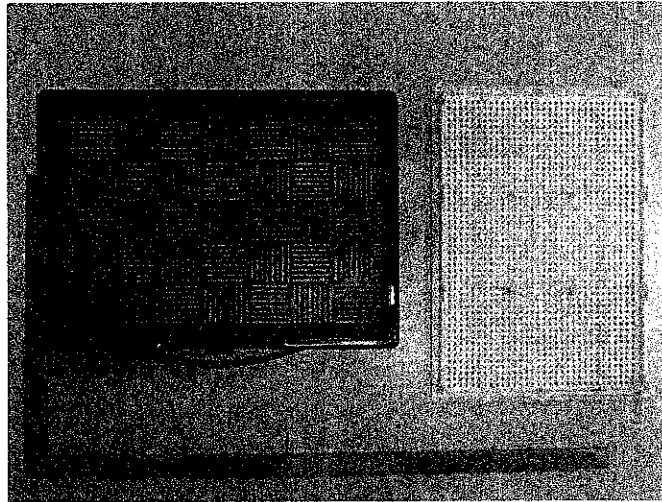
Test result

Test No.	Material No.	Test Parameter	Unit	RL	Customer requirement	Test Result	Conclusion
1	1	Lead Content	mg/kg	2	10	n.d.	Pass
2	2	Lead Content	mg/kg	2	10	n.d.	Pass
3	3+4	Lead Content	mg/kg	2	10	n.d.	Pass
4	5+6	Lead Content	mg/kg	2	10	n.d.	Pass
5	7	Lead Content	mg/kg	2	10	n.d.	Pass
6	8	Lead Content	mg/kg	2	10	n.d.	Pass
7	9	Lead Content	mg/kg	2	10	8	Pass

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

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Sample Photo:



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