

TEST REPORT

Mechanical & Hardgoods Laboratory

Report No : HY/2018/30307

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Date : 2018/04/13

KEN YO INTERNATIONAL CO., LTD.

68, Aly. 101, Lane 271, Sec. 3, Yongxing Road, Yongjing Township, Changhua, Taiwan

The following merchandise was submitted & identified by the applicant as:

<u>Type of Product:</u>	EVA foam mat
<u>Manufacturer/Vendor:</u>	KEN YO INTERNATIONAL CO., LTD.
<u>Country of Origin:</u>	Taiwan
<u>Label Age Grading:</u>	Not stated
<u>Requested Age Grading:</u>	0 – 12 age
<u>Age Group Applied in Testing:</u>	All age
<u>Sample Receiving Date:</u>	2018/03/31
<u>Testing Period:</u>	2018/04/01 – 04/13

We have tested the submitted sample(s) as requested and the following results were obtained:


Test Requested:

Please refer to the result summary.

Methods and Results:

Please refer to next page(s).

Signed for and on behalf of
SGS Taiwan Ltd.


Iris Huang
Manager



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Result Summary:

As specified by client, selected parts of the submitted sample(s) for compliance with:

<u>Item</u>	<u>Test Parameter</u>	<u>Conclusion</u>
1	EN 71 Part 1:2014 – Mechanical and Physical Properties	<u>Pass</u> (See result 1)
2	EN 71 Part 2:2011+A1:2014 – Flammability	<u>Pass</u> (See result 2)
3	Cadmium (Cd) content in accordance with Annex 17 of REACH Regulation (EC) No 1907/2006	<u>Pass</u> (See result 3)
4	Phthalate content in accordance with Annex 17 of REACH Regulation (EC) No 1907/2006	<u>Pass</u> (See result 4)
5	Lead (Pb) content in accordance with Annex 17 of REACH Regulation (EC) No 1907/2006	<u>Pass</u> (See result 5)
6	Organic-tin compounds in accordance with Annex 17 of REACH Regulation (EC) No 1907/2006	<u>Pass</u> (See result 6)
7	Polynuclear Aromatic Hydrocarbons contents	(See result 7)

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Test Results:

1. EN71-1:2014 – Mechanical and Physical Properties

Clause	Description	Result
4	General requirements	
4.1	Material cleanliness	<u>Pass</u>
4.7	Edges	<u>Pass</u>
4.8	Points and metallic wires	<u>Pass</u>
5	Toys intended for children under 36 months	
5.1	General requirements	
5.1a	Small part requirement on toys & removable Components (Test method 8.2)	<u>Pass</u>
5.1b	Torque test (Test method 8.3)	<u>Pass</u>
	Tension test (Test method 8.4)	<u>Pass</u>
	Drop test (Test method 8.5)	<u>Pass</u>
	Impact test (Test method 8.7)	<u>Pass</u>
	Compression test (Test method 8.8)	<u>Pass</u>
	Sharp edge (Test method 8.11)	<u>Pass</u>
	Sharp point (Test method 8.12)	<u>Pass</u>
5.1g	Foam toys and toys containing accessible foam components	<u>Pass</u>

LABELING REQUIREMENT (WASHING/CLEANING INSTRUCTION, CE MARK, IMPORTER / MANUFACTURER NAME AND ADDRESS, PRODUCT IDENTIFICATION) ACCORDING TO THE DIRECTIVE 2009/48/EC – SAFETY OF TOYS

Summary table:

	Observation Result	Location
Washing/Cleaning instruction	Absent	---
CE mark	Absent	---
Importer's Name & Address	Absent	---
Manufacturer's Name & Address	Absent	---
Product ID	Absent	---

Note:

1. According to Directive 2009/48/EC, a toy intended for use by children under 36 months must be designed and manufactured in such a way that it can be cleaned. A textile toy must, to this end, be washable, except if it contains a mechanism that may be damaged if soak washed. The manufacturer should, if applicable, provide instructions on how the toy has to be cleaned.
2. CE marking should be visible from outside the packaging and its height must be at least 5mm.
3. Manufacturer's and Importer's name, registered trade name or registered trade mark and the address at which the manufacturer can be contacted must be indicated on the toy or, where that is not possible, on its packaging or in a document accompanying the toy.
4. Manufacturers must ensure that their toys bear a type, batch, serial or model number or other element allowing their identification, or where the size or nature of the toy does not allow it, that the required information is provided on the packaging or in a document accompanying the toy.

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2. EN 71 Part 2:2011+A1:2014 – Flammability

<u>Clause</u>	<u>Description</u>	<u>Result</u>
4	Requirements	
4.1	General requirements	Pass

N.B.: -Only applicable clauses were shown

3. Cadmium content

Paint and Other Similar Surface Coatings / Other material

Method: With reference to US EPA 3052 (1996). Analysis was performed by ICP – AES

<u>Test item</u>	<u>Unit</u>	<u>MDL</u>	<u>1</u>	<u>Limit</u>
Cadmium (Cd)	mg/kg	2	N.D.	See Note 4

4. Phthalate content

Method: With reference to EN 14372: 2004 method. Analysis was performed by GC/MS.

<u>Test Items</u>	<u>CAS NO.</u>	<u>Test Results</u>	<u>Detected</u>	<u>Unit</u>	<u>Limit</u>
		<u>1</u>	<u>Limit</u>		
DBP (Di-butyl phthalate)	000084-74-2	N.D.	0.003	%	0.1
BBP (Benzyl butyl phthalate)	000085-68-7	N.D.	0.003	%	
DEHP (Di-(2-ethylhexyl) phthalate)	000117-81-7	N.D.	0.003	%	
DIDP (Di-isodecyl phthalate)	026761-40-0	N.D.	0.01	%	0.1
DINP (Di-isononyl phthalate)	028553-12-0	N.D.	0.01	%	
DNOP (Di-n-octyl phthalate)	000117-84-0	N.D.	0.003	%	

5. Lead content

Plastic/Paint and Other Similar Surface Coatings / Other material

Method: With reference to US EPA 3052 (1996). Analysis was performed by ICP – AES

<u>Test item</u>	<u>Unit</u>	<u>MDL</u>	<u>1</u>	<u>Limit</u>
Lead (Pb)	mg/kg	2	N.D.	< 500

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6. Organic-tin compounds content

Method: With reference to ISO 17353. Analysis was performed by GC/FPD.

<u>Test Items</u>	<u>Unit</u>	<u>MDL</u>	<u>Test Results</u>	<u>Limit</u>
			<u>1</u>	
Tributy Tin (TBT)	ppm(mg/kg)	0.03	N.D.	<1000
Triphenyl Tin (TphT)	ppm(mg/kg)	0.03	N.D.	<1000
Dibutyl Tin (DBT)	ppm(mg/kg)	0.03	N.D.	<1000
Dioctyl Tin (DOT)	ppm(mg/kg)	0.03	N.D.	<1000

7. Polynuclear Aromatic Hydrocarbons contents

Method: With reference to AfPS GS 2014:01 PAK method. Analysis was performed by GC/MS.

<u>Test items</u>	<u>Unit</u>	<u>MDL</u>	<u>1</u>
Acenaphthene (CAS No.: 83-32-9)	mg/kg	0.2	N.D.
Acenaphthylene (CAS No.: 208-96-8)		0.2	N.D.
Anthracene (CAS No.: 120-12-7)		0.2	N.D.
Benzo[a]anthracene (CAS No.: 56-55-3)		0.2	N.D.
Benzo[a]pyrene (CAS No.: 50-32-8)		0.2	N.D.
Benzo[b]fluoranthene (CAS No.: 205-99-2)		0.2	N.D.
Benzo[g,h,i]perylene (CAS No.: 191-24-2)		0.2	N.D.
Benzo[k]fluoranthene (CAS No.: 207-08-9)		0.2	N.D.
Chrysene (CAS No.: 218-01-9)		0.2	N.D.
Dibenzo[a,h]anthracene (CAS No.: 53-70-3)		0.2	N.D.
Fluoranthene (CAS No.: 206-44-0)		0.2	N.D.
Fluorene (CAS No.: 86-73-7)		0.2	N.D.
Indeno[1,2,3-c,d] pyrene (CAS No.: 193-39-5)		0.2	N.D.
Naphthalene (CAS No.: 91-20-3)		0.2	N.D.
Phenanthrene (CAS No.: 85-01-8)		0.2	N.D.
Pyrene (CAS No.: 129-00-0)		0.2	N.D.
Benzo[j]fluoranthene (CAS No.: 205-82-3)		0.2	N.D.
Benzo[e]pyrene (CAS No.: 192-97-2)		0.2	N.D.
Sum of 18 PAHs		-	N.D.

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AfPS (German commission for Product Safety): GS PAHs requirements

Parameter	Category 1	Category 2		Category 3	
	Material indented to be put in the mouth or toys with intended skin contact (longer than 30 s).	Materials not falling under category 1 with foreseeable contact to skin for longer than 30 seconds (long-term skin contact).		Materials not falling under category 1 or 2 with foreseeable contact to skin for less than 30 seconds (short-term skin contact).	
		Toy under 2009/48/EC	Other products under ProdSG	Toy under 2009/48/EC	Other products under ProdSG
Naphthalene	< 1	< 2		< 10	
Acenaphthylene	< 1 Sum	< 5 Sum	< 10 Sum	< 20 Sum	< 50 Sum
Acenaphthene					
Fluorene					
Phenanthrene					
Anthracene					
Fluoranthene					
Pyrene					
Benzo[a]anthracene	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Chrysene	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Benzo[b]fluoranthene	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Benzo[j]fluoranthene	< 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
Benzo[e]pyrene	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Indeno[1,2,3-c,d]pyrene	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Dibenzo[a,h]anthracene	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Benzo[g,h,i]perylene	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Sum of 18 PAH	< 1	< 5	< 10	< 20	< 50

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Description:

1. Pink foam of sample.

Note: 1. mg/kg = ppm

2. N.D. = not detected

3. MDL =Method Detection Limit

4. Requirement: They shall not be placed on market, if

- The mixtures and articles produced from plastic material: ≥ 100 ppm

- Painted articles: ≥ 1000 ppm

- Metal components for jewelry: ≥ 100 ppm

5. The chemical analysis was conducted in SGS Taiwan Ltd. Chemical Laboratory-Taipei

Sample picture(As received)

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** End of Report **

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