



**Test Report** No. F690101/LF-CTSAYHA16-04458 Issued Date : 2016. 05. 17 Page 1 of 8

**I&S CO., LTD.**  
136-1 Hojuk-ri, Oksanmyeon  
Heungdeok-gu, Cheongju-si, Chungbuk  
Korea

The following sample(s) was/were submitted and identified by/on behalf of the client as:-

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**SGS File No.** : AYHA16-04458  
**Sample Description** : BABY CARE BABY PLAY MAT/ COMFLOR / 爱贝乐  
**Detail of Sample** : Play mat  
**Style no./Item no.** : 00610B  
**Order No.** : -  
**Packaging** : Yes  
**Instructions for use/assembly** : Not provided  
**Buyer** : -  
**Manufacturer** : I&S CO., LTD.  
**Country of Origin** : -  
**Country of Destination** : -  
**Labeled age grading** : 0 ~ 7+  
**Requested age** : None  
**SGS assessed age (based on CR 14379/ASTM F963)** : All ages  
**Received Date** : 2016. 05. 09  
**Test Period** : 2016. 05. 09 to 2016. 05. 17  
**Test Method** : For further details, please refer to following page (s)  
**Test Results** : For further details, please refer to following page (s)

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## Result Summary

Test Requested	Conclusion
EN 71 Part 1:2014– Mechanical and Physical Properties	PASS
EN 71 Part 2:2011+A1:2014– Flammability of Toys	PASS
Labeling requirement ( Washing/Cleaning Label, CE mark, importer / manufacturer mark (name, address), product identification) according to the Directive 2009/48/EC-Safety of toys	See note 1*
EN71-3:2013 + A1:2014 – Migration of certain elements (By all conclusive testing)  (Selected specimen(s) was/were tested as specified by the applicant, please refer to test result page(s) for details.)	PASS

SGS Korea Co., Ltd.



Daesung Lee / Technical Manager

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**Test Conducted**

European Standard on Safety of Toys  
 - Mechanical & Physical Properties  
 As specified in European standard on safety of toys EN 71 Part 1:2014

Clause	Description	Result
4	General requirements	-
4.1	Material cleanliness	Pass
4.7	Edges	Pass
4.8	Points and metallic wires	Pass
5	Toys intended for children under 36 months	-
5.1	General requirements	Pass
5.1a	Small part requirements on toys & removable components (Test method 8.2)	Pass
5.1b	Torque test(Test method 8.3)	Pass
	Tension test(Test method 8.4)	Pass
	Tip over test (Test method 8.6)	Pass
	Impact test(Test method 8.7)	Pass
	Compression test(Test method 8.8)	Pass
	Sharp edge(Test method 8.11)	Pass
	Sharp point(Test method 8.12)	Pass
5.1d	Large and bulky toys	Pass
5.2	Soft-filled toys and soft-filled parts of a toy	Pass

- Flammability of Toys  
 As specified in European standard on safety of toys EN71 PART 2: 2011+A1:2014

Clause	Description	Result
4.1	General requirements	Pass

N.B. : Only applicable clauses were shown.

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See note 1\*

**Labeling requirement (Washing/Cleaning Label, CE mark, importer / manufacturer mark (name, address), product identification) according to the Directive 2009/48/EC-Safety of toys**

Summary table:

	Observation Result	Location
Washing/Cleaning instruction	Absent	See note 1
CE mark	Present	Affixed label (The height is 6 mm)
Importer's Name & Address	Present	Affixed label
Manufacturer's Name & Address	Absent	See note 2
Product ID	Absent	See note 3

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. 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.
3. 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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**Test Results :**
**EN71-3:2013 + A1:2014 – Migration of certain elements**
**Category III: Scrapped-off toy material**

Method : With reference to EN71-3:2013 + A1:2014. Analysis of general elements was performed by ICP-OES. Chromium (III) was obtained by calculation, chromium (VI) was analyzed by IC-UV/VIS. Organic Tin was analyzed by GC-MS.

Test Item	Result (mg/kg)				Reporting Limit (mg/kg)	Permissible Limit (EN71-3:2013 +A1:2014) (mg/kg)
	1	2	3	4		
Mass of trace amount (mg)	--	--	--	--	--	--
Soluble Aluminium (Al)	ND	ND	ND	ND	50	70,000
Soluble Antimony (Sb)	ND	ND	ND	ND	10	560
Soluble Arsenic (As)	ND	ND	ND	ND	10	47
Soluble Barium (Ba)	ND	ND	ND	ND	50	18,750
Soluble Boron (B)	ND	ND	ND	ND	50	15,000
Soluble Cadmium (Cd)	ND	ND	ND	ND	5	17
Soluble Chromium (Cr)	ND	ND	ND	ND	0.15	--
Soluble Chromium (III) (Cr (III))	ND	ND	ND	ND	5	460
Soluble Chromium (VI) (Cr (VI))	ND	ND	ND	ND	0.18	0.2
Soluble Cobalt (Co)	ND	ND	ND	ND	10	130
Soluble Copper (Cu)	ND	ND	ND	ND	50	7,700
Soluble Lead (Pb)	ND	ND	ND	ND	10	160
Soluble Manganese (Mn)	ND	ND	ND	ND	50	15,000
Soluble Mercury (Hg)	ND	ND	ND	ND	10	94
Soluble Nickel (Ni)	ND	ND	ND	ND	10	930
Soluble Selenium (Se)	ND	ND	ND	ND	10	460
Soluble Strontium (Sr)	ND	ND	ND	ND	50	56,000
Soluble Tin (Sn)	ND	ND	ND	ND	4.9	180,000
Soluble Organic Tin --	ND	ND	ND	ND	0.5	12
Soluble Zinc (Zn)	ND	ND	ND	ND	50	46,000
<b>Comment for EN71-3:2013 + A1:2014</b>	<b>PASS</b>	<b>PASS</b>	<b>PASS</b>	<b>PASS</b>	--	--

**Sample Description :**

- |                           |              |
|---------------------------|--------------|
| 1. white foam (inner mat) | 2. Blue mat  |
| 3. green mat              | 4. brown mat |

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**Test Results :**
**EN71-3:2013 + A1:2014 – Migration of certain elements**
**Category III: Scrapped-off toy material**

Method : With reference to EN71-3:2013 + A1:2014. Analysis of general elements was performed by ICP-OES. Chromium (III) was obtained by calculation, chromium (VI) was analyzed by IC-UV/VIS. Organic Tin was analyzed by GC-MS.

Test Item	Result (mg/kg)				Reporting Limit (mg/kg)	Permissible Limit (EN71-3:2013 +A1:2014) (mg/kg)
	5	6	7	8		
Mass of trace amount (mg)	--	--	--	--	--	--
Soluble Aluminium (Al)	ND	ND	ND	ND	50	70,000
Soluble Antimony (Sb)	ND	ND	ND	ND	10	560
Soluble Arsenic (As)	ND	ND	ND	ND	10	47
Soluble Barium (Ba)	ND	ND	ND	ND	50	18,750
Soluble Boron (B)	ND	ND	ND	ND	50	15,000
Soluble Cadmium (Cd)	ND	ND	ND	ND	5	17
Soluble Chromium (Cr)	ND	ND	ND	ND	0.15	--
Soluble Chromium (III) (Cr (III))	ND	ND	ND	ND	5	460
Soluble Chromium (VI) (Cr (VI))	ND	ND	ND	ND	0.18	0.2
Soluble Cobalt (Co)	ND	ND	ND	ND	10	130
Soluble Copper (Cu)	ND	ND	ND	ND	50	7,700
Soluble Lead (Pb)	ND	ND	ND	ND	10	160
Soluble Manganese (Mn)	ND	ND	ND	ND	50	15,000
Soluble Mercury (Hg)	ND	ND	ND	ND	10	94
Soluble Nickel (Ni)	ND	ND	ND	ND	10	930
Soluble Selenium (Se)	ND	ND	ND	ND	10	460
Soluble Strontium (Sr)	ND	ND	ND	ND	50	56,000
Soluble Tin (Sn)	ND	ND	ND	ND	4.9	180,000
Soluble Organic Tin --	ND	ND	ND	ND	0.5	12
Soluble Zinc (Zn)	ND	ND	ND	ND	50	46,000
<b>Comment for EN71-3:2013 + A1:2014</b>	<b>PASS</b>	<b>PASS</b>	<b>PASS</b>	<b>PASS</b>	--	--

**Sample Description :**

- |               |               |
|---------------|---------------|
| 5. pink mat   | 6. orange mat |
| 7. purple mat | 8. yellow mat |

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Test Item(s)	Soluble Organic Tin Result(s) (mg/kg)		MDL (mg/kg)
	1-8		
Methyl tin (MeT)	ND		0.5
Di-n-propyl tin (DProT)	ND		0.5
Butyl tin (BuT)	ND		0.5
Dibutyl tin (DBT)	ND		0.5
Tributyl tin (TBT)	ND		0.5
n-Octyl tin (MOT)	ND		0.5
Tetrabutyl tin (TeBT)	ND		0.5
Diphenyl tin (DPhT)	ND		0.5
Di-n-octyl tin (DOT)	ND		0.5
Triphenyl tin (TPhT)	ND		0.5

**Sample Description :**

- |                           |               |
|---------------------------|---------------|
| 1. white foam (inner mat) | 2. Blue mat   |
| 3. green mat              | 4. brown mat  |
| 5. pink mat               | 6. orange mat |
| 7. purple mat             | 8. yellow mat |

- Note.
1. mg/kg = milligram per kilogram
  2. ND = Not Detected
  3. 1% = 10000 mg/kg = 10000 ppm

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**Picture of Sample as Received :**



\*\*\* End of Report \*\*\*

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