

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

SGS File No.	:	AYHA21-07864
Sample Description	:	Hyggi Playmat
Detail of Sample	:	Hyggi playmat toy having packaging box.
Style no./Item no.	:	-
Order No.	:	-
Packaging	:	Yes, provided
Instructions for use/assembly	:	Not provided
Buyer	:	Hyggi ApS
Manufacturer	:	
Country of Origin	:	-
Country of Destination	:	-
Labeled age grading	:	None
Requested age	:	0 years and over
SGS assessed age (based on CEN ISO 8124-8 /CPSC Age Determination guidelines)	:	All ages
Received Date	:	2021. 06. 11
Test Period	:	2021. 06. 11 to 2021. 06. 18
Test Method	:	For further details, please refer to following page (s)
Test Results	:	For further details, please refer to following page (s)
Report Comments	:	The results shown in this test report refer only to the sample(s) tested unless otherwise stated.

This test report is not related to Korea Laboratory Accreditation Scheme.

Test Report

No. F690101/LF-CTSAYHA21-07864

Issued Date: 2021. 06. 18

Page 2 of 8

Result Summary

Test Requested	Conclusion
EN 71 Part 1:2014+A1:2018 – 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*
Directive 2009/48/EC and its amendment Council Directive (EU) 2017/738, Commission Directive (EU) 2019/1922 - EN71-3:2019 – Migration of certain elements	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+A1:2018

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
	Sharp edge(Test method 8.11)	Pass
	Sharp point(Test method 8.12)	Pass
5.1d	Large and bulky toys	Pass
6	Packaging	Pass

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Test Report

No. F690101/LF-CTSAYHA21-07864

Issued Date: 2021. 06. 18

Page 4 of 8

- 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
4.5	Soft-filled toys (animals and doll, etc.) with a piled or textile surface	Pass (See note *)

* Soft-filled toys (animals and doll, etc.) with a piled or textile surface (Clause 4.5)

Sample	Burning Rate (mm/s)
Hyggi playmat toy	DNI

(The rate of spread of flame on the surface of toy shall not be greater than 30 mm/s)

NSFO = No surface flash occurred

DNI = Did not ignite

IBE = Ignite But Self-Extinguished

N/A = Not applicable since the requirements of this sub-clause do not apply to toys with a greatest dimension of 150mm or less

SE = Self-Extinguishing

N.B. : Only applicable clauses were shown.

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	Present	Packaging
CE mark	Present	Packaging
Importer's Name & Address	Absent	See Note 3
Manufacturer's Name & Address	Absent	See Note 3
Product ID	Present	Packaging

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.

Test Report

No. F690101/LF-CTSAYHA21-07864

Issued Date: 2021. 06. 18

Page 6 of 8

Directive 2009/48/EC and its Amendment Council Directive (EU) 2017/738, Commission Directive (EU) 2019/1922 - EN71-3: 2019 – Migration of certain elements

Category III: Scrapped-off toy material

Method : With reference to EN71-3:2019. Analysis of general elements was performed by ICP-OES and 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 (mg/kg)
	1	2	3	4		
Mass of trace amount (mg)	--	--	--	--	--	--
Soluble Aluminium (Al)	ND	ND	ND	ND	50	28,130
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 (III) (Cr (III))	ND	ND	ND	ND	5	460
Soluble Chromium (VI) (Cr (VI))	ND	ND	ND	ND	0.01	0.053
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	23
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	--	12
Soluble Zinc (Zn)	ND	ND	ND	ND	50	46,000
Comment / Conclusion	PASS	PASS	PASS	PASS	--	--

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Test Report

No. F690101/LF-CTSAYHA21-07864

Issued Date: 2021. 06. 18

Page 7 of 8

Test Item(s)	Soluble Organic Tin Result(s) (mg/kg)				MDL (mg/kg)
	1	2	3	4	
Dimethyl tin (DMT)	ND	ND	ND	ND	0.5
Methyl tin (MeT)	ND	ND	ND	ND	0.5
Di-n-propyl tin (DProT)	ND	ND	ND	ND	0.5
Butyl tin (BuT)	ND	ND	ND	ND	0.5
Dibutyl tin (DBT)	ND	ND	ND	ND	0.5
Tributyl tin (TBT)	ND	ND	ND	ND	0.5
n-Octyl tin (MOT)	ND	ND	ND	ND	0.5
Tetrabutyl tin (TeBT)	ND	ND	ND	ND	0.5
Diphenyl tin (DPhT)	ND	ND	ND	ND	0.5
Di-n-octyl tin (DOT)	ND	ND	ND	ND	0.5
Triphenyl tin (TPhT)	ND	ND	ND	ND	0.5

Sample Description :

- | | |
|------------------------|------------------------|
| 1. Dark green mat skin | 2. Light grey mat skin |
| 3. White mat skin | 4. White foam |

- Note.
1. mg/kg = milligram per kilogram
 2. ND = Not Detected (< MDL)
 3. 1% = 10000 mg/kg = 10000 ppm
 4. Soluble Chromium (III) = Soluble Total Chromium – Soluble Chromium (VI)

Picture of Sample as Received :

**AYHA21-07864**

*** End of Report ***