

Report No :	HY	/2019/1	0114
Page:	1	of	10
Date :	201	9/02/14	1

#### MOLUK GmbH (www.moluk.com)

Seefeldstrasse 178, 8008 Zurich, Switzerland

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

Sample description and function: Soft plastic cube frame Packaging/Type: Instructions for use/assembly: Type of Product:

Yes/Plastic box, back card, hang tag Not provided Oibo 3-set, primary colors, Oibo 3-set, monochrome colors, Oibo, blue 43420,43421,43422 MOLUK GmbH China **EUROPE** 0 +0 +3 Months + All ages 2019/01/17

**Testing Period**: 2019/01/18 - 02/13 We have tested the submitted sample(s) as requested and the following results were obtained:

#### **Test Requested:**

Style/Item No:

Manufacturer/Vendor: Country of Origin:

**Country of Destination:** 

**Requested Age Grading:** 

Sample Receiving Date:

Age Group Assessed As Per Age

Age Group Applied in Testing:

Label Age Grading:

Guideline:

Please refer to the result summary.

#### **Methods and Results:**

Please refer to next page(s).

Signed for and on l SGS Taiwan Ltd.



Owen Cheng Manager

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### **Result Summary:**

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

<u>Item</u>	Test Parameter	<b>Conclusion</b>
1	EN 71 Part 1:2014 +A1:2018 – Mechanical and Physical Properties	Pass (See result 1)
2	EN 71 Part 2:2011+A1:2014 – Flammability	Pass (See result 2)
3	EN 71 Part 3:2013+ A3:2018- Migration of Certain Elements	Pass (See result 3)
4	EN 71-12:2016 - N-Nitrosamines and N-nitrosatable substances	Pass (See result 4)
5	Cadmium(Cd) content in accordance with Annex 17 of REACH Regulation (EC) No 1907/2006	Pass (See result 5)
6	Polycyclic Aromatic Hydrocarbons contents in accordance with Annex 17 of REACH Regulation (EC) No 1907/2006	Pass (See result 6)
7	Phthalate content in accordance with Annex 17 of REACH Regulation (EC) No 1907/2006 (w/ DiBP)	Pass (See result 7)
8	Organic-tin compounds content in accordance with Annex 17 of REACH Regulation (EC) No 1907/2006	Pass (See result 8)
9	Migration Bisphenol A content with reference EN 71 -9 2D Migration Monomers	Pass (See result 9)
10	Flame Retardants content	Pass (See result 10)
11	Cadmium, Lead, Mercury and Hexavalent Chromium Cr (VI) contents (94/62/EC)	Pass (See result 11)

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Report No :	HY/2019/10114			
Page :	3	of	10	

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Test Rest	ılts:					
1. EN 71	l Part 1:	2014+A1:2018 – Mechanical and Physical Properties				
Clause	Descri	iption	Result			
4	Genera	al requirements				
4.1	Materi	al cleanliness	Pass			
4.7	Edges		Pass			
4.8	Points	and metallic wires	Pass			
4.17	Projec	tiles	Pass			
4.22	Small balls					
5	Toys intended for children under 36 months					
5.1	Genera	al requirements				
	5.1a	Small part requirement 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			
		Drop test (Test method 8.5)	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			
5.8	Shape	and size of certain toys	N/A			
5.10	Small	balls	Pass			

#### 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	Present	Hang tag, Back card
CE mark	Present	Hang tag, Back card
Importer's Name & Address	Present	Hang tag, Back card
Manufacturer's Name & Address	Present	Hang tag, Back card
Product ID	Present	Hang tag, Back card

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#### Report No : HY/2019/10114 Page : $\Delta$ of 10

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.

**TEST REPORT** 

- 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.

#### 2. EN 71 Part 2:2011+A1:2014 - Flammability

<u>Clause</u> <u>Description</u>	<u>Clause</u> <u>D</u>	escription
----------------------------------	------------------------	------------

- 4 Requirements
- 4.1 General requirements
- N.B.:-Only applicable clauses were shown

Result Pass

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Report No :	HY/2019/10114			
Page:	5	of	10	

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#### 3. Migration of Certain Elements

#### **Category III: Scrapped-off toy material**

Method: With reference to EN 71 Part 3:2013+ A3:2018. Analysis of general elements was performed by ICP-MS. Extractable Organic Tin was analyzed by GC-MS. Extractable Chromium III & Chromium VI were analyzed by LC-ICP-MS.

Test Items		Result(mg/kg)		RL	Limit
Test Items		1~3	7~9	(mg/kg)	(mg/kg)
Soluble Aluminium	(Al)	N.D.	N.D.	50	70,000
Soluble Antimony	(Sb)	N.D.	N.D.	10	560
Soluble Arsenic	(As)	N.D.	N.D.	10	47
Soluble Barium	(Ba)	N.D.	N.D.	50	18,750
Soluble Boron	(B)	N.D.	N.D.	50	15,000
Soluble Cadmium	(Cd)	N.D.	N.D.	5	17
Soluble Cobalt	(Co)	N.D.	N.D.	10	130
Soluble Copper	(Cu)	N.D.	N.D.	50	7,700
Soluble Lead	(Pb)	N.D.	N.D.	10	23
Soluble Manganese	(Mn)	N.D.	N.D.	50	15,000
Soluble Mercury	(Hg)	N.D.	N.D.	10	94
Soluble Nickel	(Ni)	N.D.	N.D.	10	930
Soluble Selenium	(Se)	N.D.	N.D.	10	460
Soluble Strontium	(Sr)	N.D.	N.D.	50	56,000
Soluble Tin	(Sn)	N.D.	N.D.	4.9	180,000
Soluble Zinc	(Zn)	N.D.	N.D.	50	46,000
Soluble Chromium (III)	(Cr (III))	N.D.	N.D.	5	460
Soluble Chromium (VI)	(Cr (VI))	N.D.	N.D.	0.18	0.2
Soluble Organic Tin#	-	N.D.	N.D.	-C	12

Remark:

Test Ite	ma	Soluble Organ	MDL	
Test He	1115	1~3	7~9	(mg/kg)
Methyl tin	(MeT)	N.D.	N.D.	0.5
Di-n-propyl tin	(DProT)	N.D.	N.D.	0.5
Butyl tin	(BuT)	N.D.	N.D.	0.5
Dibutyl tin	(DBT)	N.D.	N.D.	0.5
Tributyl tin	(TBT)	N.D.	N.D.	0.5
n-Octyl tin	(MOT)	N.D.	N.D.	0.5
Tetrabutyl tin	(TeBT)	N.D.	N.D.	0.5
Di-n-octyl tin	(DOT)	N.D.	N.D.	0.5
Diphenyl tin	(DPhT)	N.D.	N.D.	0.5
Triphenyl tin	(TPhT)	N.D.	N.D.	0.5

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Report No : HY/2019/10114 Page : of 10 6

#### 4. Nitrosamines content

With reference to EN 71-12:2016 clause 7.3, clause 8 & clause 9.2. Analysis was performed by LC-MS-MS.

Toys and parts of toys made from elastomers intended for use by children under 36 months but not intended or likely to be placed into the mouth

Test Item(s)	Results(s) (mg/kg)		MDL (mg/kg)	Permissible Limit (mg/kg)
Specimen No.	1~3	7~9	-	
N-nitrosodiethanolamine (NDELA)	N.D.	N.D.	0.01	
N-Nitrosodimethylamine (NDMA)	N.D.	N.D.	0.01	
N-Nitrosodiethylamine (NDEA)	N.D.	N.D.	0.01	
N-Nitrosodipropylamine (NDPA)	N.D.	N.D.	0.01	
N-nitrosodiisopropylamine (NDiPA)	N.D.	N.D.	0.01	
N-nitrosodibutylamine(NDBA)	N.D.	N.D.	0.01	
N-nitrosodiisobutylamine (NDiBA)	N.D.	N.D.	0.01	
N-nitrosodiisononylamine (NDiNA)	N.D.	N.D.	0.01	
N-nitrosomorpholine(NMOR)	N.D.	N.D.	0.01	
N-nitrosopiperidine (NPIP)	N.D.	N.D.	0.01	
N-nitrosodibenzylamine(NDBzA)	N.D.	N.D.	0.01	
N-nitroso-N-methyl-N-phenylamine (NMPhA)	N.D.	N.D.	0.01	
N-nitroso-N-ethyl-N-phenylamine (NEPhA)	N.D.	N.D.	0.01	
Sum of N-Nitrosamines	N.D.	N.D.		0.05
N-nitrosatable substances	N.D.	N.D.	0.1	1.0

#### 5. Cadmium content

#### **Plastic**

Method: With reference to BS EN 1122: 2001, Method B and performed by ICP - AES

<u>Test item</u>	<u>Unit</u>	MDL	<u>4</u>	<u>10</u>	Limit
Cadmium (Cd)	mg/kg	2	N.D.	N.D.	See Note 4

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Report No:	HY	/2019/1	0114
Page:	7	of	10

#### 6. Polycyclic Aromatic Hydrocarbons contents

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

<u>Test items</u>	<u>Unit</u>	MDL	<u>4</u>	<u>10</u>	<u>Limit</u>
Benzo[a]pyrene (CAS No.: 50-32-8)	mg/kg	0.2	N.D.	N.D.	0.5
Benzo[e]pyrene (CAS No.: 192-97-2)		0.2	N.D.	N.D.	0.5
Benzo[a]anthracene (CAS No.: 56-55-3)		0.2	N.D.	N.D.	0.5
Chrysene (CAS No.: 218-01-9)		0.2	N.D.	N.D.	0.5
Benzo[b]fluoranthene (CAS No.: 205-99-2)		0.2	N.D.	N.D.	0.5
Benzo[j]fluoranthene (CAS No.: 205-82-3)		0.2	N.D.	N.D.	0.5
Benzo[k]fluoranthene (CAS No.: 207-08-9)		0.2	N.D.	N.D.	0.5
Dibenzo[a,h]anthracene (CAS No.: 53-70-3)		0.2	N.D.	N.D.	0.5

#### 7. Phthalate content

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

<u>Test items</u>	<u>Unit</u>	MDL	<u>4</u>	<u>10</u>	Permissible Limit
Dibutyl Phthalate (DBP)	%	0.003	N.D.	N.D.	
Benzylbutyl Phthalate (BBP)	%	0.003	N.D.	N.D.	0.1%
Di-(2-ethylhexyl)Phthalate (DEHP)	%	0.003	N.D.	N.D.	
Diisononyl Phthalate (DINP)	%	0.01	N.D.	N.D.	
Di-n-octyl Phthalate (DNOP)	%	0.003	N.D.	N.D.	0.1%
Diisodecyl Phthalate (DIDP)	%	0.01	N.D.	N.D.	664
Di-iso-Butyl phthalate(DIBP)	%	0.003	N.D.	N.D.	_

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Report No :	HY	/2019/1	10114
Page:	8	of	10

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#### 8. Organic-tin compounds content

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

<u>Test Items</u>	<u>Unit</u>	MDI	<u>Test R</u>	T ::4	
		MDL	<u>4</u>	<u>10</u>	<u>Limit</u>
Tributy Tin (TBT)	ppm(mg/kg)	0.03	N.D.	N.D.	1000
Triphenyl Tin (TphT)	ppm(mg/kg)	0.03	N.D.	N.D.	1000
Dibutyl Tin (DBT)	ppm(mg/kg)	0.03	N.D.	N.D.	1000
Dioctyl Tin (DOT)	ppm(mg/kg)	0.03	N.D.	N.D.	1000

#### 9. Bisphenol A content

Sample preparation with reference to EN71-10: 2005 followed by analysis with reference to EN71-11: 2005.

Tost Itoma	CASNO	Test Results			T ::4	T
Test Items <u>CAS</u>	<u>CAS NO.</u>	<u>4</u>	<u>10</u>	LOQ/LOD	<u>Limit</u>	<u>Unit</u>
Bisphenol A	000080-05-7	N.D.	N.D.	0.04	0.05	ppm(mg/L)

#### **10. Flame Retardants content**

With reference to US EPA 3550C (2007). Analysis was performed by GC/MS.

Test items	CAS NO.	MDL	4	<u>10</u>	<u>Limit</u>
Tris (2-chloroethyl) phosphate (TCEP)	115-96-8	5	N.D.	N.D.	5
Tris(1-chloro-2-propyl) phosphate (TCPP)	13674-84-5	5	N.D.	N.D.	5
Tris(1,3-dichloro-2-propyl)phosphate (TDCPP)	13674-87-8	5	N.D.	N.D.	5

### 11. Cadmium, Lead, Mercury and Hexavalent Chromium Cr (VI) contents (94/62/EC)

<u>Test items</u>	<u>Unit</u>	MDL	<u>5~6</u>	<u>Limit</u>
Cadmium (Cd)		2	N.D.	
Lead (Pb)		2	N.D.	-/
Mercury (Hg)	mg/kg	2	N.D.	-
Hexavalent Chromium Cr(VI) By alkaline extraction	c S	2	N.D.	-
Total Cadmium + Lead + Mercury + Hexavalent Chromium Cr (VI)		-	N.D.	100

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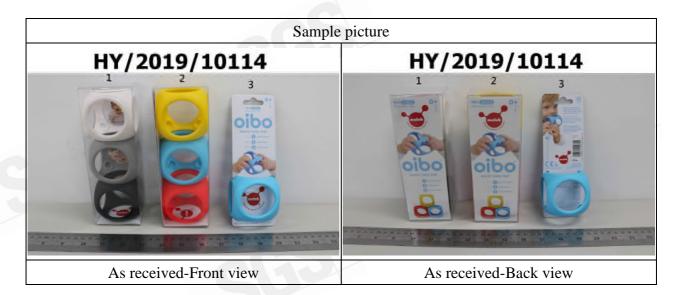


## Description:

- 1. Yellow silicone of sample.
- 2. Red silicone of sample.
- 3. Blue silicone of sample.
- 4. Composite of yellow, red, blue silicone of sample.
- 5. Multicolored printing paper of sample.
- 6. Transparent plastic of sample.
- 7. White silicone of sample.
- 8. Grey silicone of sample.
- 9. Black silicone of sample.
- 10. Composite of white, grey, black silicone of sample.

#### 1. mg/kg = ppmNote:

- 2. N.D. = not detected
- 3. RL= Reporting Limit
- 4. MDL = Method Detection Limit
- 5. "-" = Not Regulated
- 6. The chemical analysis was conducted in SGS Taiwan Ltd. Chemical Laboratory-Taipei/SGS Taiwan Ltd. Ultra Trace Industrial Safety Hygiene / SGS Hong Kong Ltd.



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Report No : HY/2019/10114 Page : 9 of 10





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