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Report No.: 16513-1 SHA17
Date: 20.12.17
Order No.: SHA-21674-17
Date of order: 04.12.17
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Test Report

Order description: **Chemical And Physical Test**

Article Name	Wooden rack
Material	Wood, Cotton
Condition of sample at delivery	no defects
Arrival date	04.12.17
Test start date	04.12.17
Test end date	20.12.17



Limit lists

Chem.	Limit values according to client request(s)
Phys.	Limit values according to client request(s)

Final conclusion: PASS

Test results and evaluation are only related to tested items and to performed methods. Detailed information regarding measurement uncertainties are available on request.

Sara Shen

Sara Shen
Head of Report Review Team

Summary

17-063710-01 Wooden rack

All test results comply with the requirements according to the scope of analysis.

Remark: The test item was conducted by an accredited subcontractor.

17-063710-02 Wooden rack

Comply with EN71-1&2 requirements according to the scope of analysis.

Remark:

- (1) The test items were conducted by an accredited subcontractor.
- (2) *= The CE marking was not available on the product.
The packaging was not provided.

Overview of Chem. testing

Sample no	Type / Style
17-063710-01	-

Component list	
No	Components
01	Wood substrate
02	Beige rope
03	Small stopper

Customer requirements evaluation				
	Components			
	Tested	Result	Failed	Not tested
Migration of certain elements(Category 3)	01, 02, 03	PASS		

Overview of Phys. testing

Sample no	Type / Style
17-063710-02	-

Component list	
No	Components
-	Entire article

Customer requirements evaluation				
	Components			
	Tested	Result	Failed	Not tested
Flammability test (EN71-2)	-	PASS		
Mechanical Test (EN 71-1)	-	PASS		

Legend: Chem.: chemical tests, Phys.: physical tests, m.s.: composite sample, n.d.: not determined, n.a.: not applicable, n.t.: not tested, i.m.: insufficient material, sum: see summary, s.c.: see component, pos: positive, neg: negative, min: minimum limit, max: maximum limit

Detailed results of Chem. testing

Sample no: 17-063710-01

Migration of certain elements(Category 3)

Sample type: Chem.

Norm: EN 71-3

Parameter	Unit	Limit	01	02	03
			Result	Result	Result
Lead (Pb) EN 71-3 category 3	mg/kg	23	<10	<10	<10
Antimony (Sb): EN 71-3 category 3	mg/kg	560	<10	<10	<10
Arsenic (As) EN 71-3 category 3	mg/kg	47	<10	<10	<10
Barium (Ba): EN 71-3 category 3	mg/kg	18750	<50	<50	<50
Cadmium (Cd): EN 71-3 category 3	mg/kg	17	<10	<10	<10
Chromium III (Cr III) EN 71-3 category 3	mg/kg	460	<5	<5	<5
Chromium VI (Cr VI) EN 71-3 category 3	mg/kg	0.2	<0.2	<0.2	<0.2
Mercury (Hg) EN 71-3 category 3	mg/kg	94	<10	<10	<10
Selenium (Se): EN 71-3 category 3	mg/kg	460	<10	<10	<10
Boron (B): EN 71-3 category 3	mg/kg	15000	<50	<50	<50
Cobalt (Co): EN 71-3 category 3	mg/kg	130	<10	<10	<10
Manganese (Mn): EN 71-3 category 3	mg/kg	15000	<50	<50	<50
Strontium (Sr): EN 71-3 category 3	mg/kg	56000	<50	<50	<50
Tin (Sn): EN 71-3 category 3	mg/kg	180000	<5	<5	<5
Zinc (Zn): EN 71-3 category 3	mg/kg	46000	<50	<50	<50
Copper (Cu): EN 71-3 category 3	mg/kg	7700	<50	<50	<50
Aluminum (Al): EN 71-3 category 3	mg/kg	70000	<50	<50	<50
Nickel (Ni): EN 71-3 category 3	mg/kg	930	<10	<10	<10
Organo tin compounds DI in EN 71-3 category 3	mg/kg	12	<0.02	<0.02	<0.02
Evaluation			PASS	PASS	PASS

Detailed results of Phys. testing

Sample no: 17-063710-02

Notes:

Labeling Age Grading : Ages over 3 years

Appropriate Age Grade : Ages over 3 years

Testing Age Grade : Ages over 3 years

Tests according to EN 71-1:2015

Clause	Safety Requirements	Test results / Remarks	Evaluation
4	General requirements		PASS
4.1	Material cleanliness		PASS
4.2	Assembly		n.a.
4.3	Flexible plastic sheeting		n.a.
4.4	Toy bags		n.a.
4.5	Glass		n.a.
4.6	Expanding materials		n.a.
4.7	Edges		PASS
a)	Edges of metal or glass		PASS
b)	Overlap joints		n.a.
c)	Edges of metal and of rigid polymeric material		n.a.
d)	Functional edges		n.a.
4.8	Points and metallic wires		PASS
a)	Points		PASS
b)	Sharp functional points		n.a.
c)	Metallic wires intended to be bent		n.a.
d)	Metallic wires not designed to be bent		n.a.
e)	Splinters on surfaces and accessible edges of toys		n.a.
4.9	Protruding parts		PASS
4.10	Parts moving against each other		n.a.
4.11	Mouth-actuated toys		n.a.
4.12	Balloons		n.a.
4.13	Cords of toy kites and other flying toys		n.a.
4.14	Enclosures		n.a.
4.15	Toys intended to bear the mass of a child		n.a.
4.16	Heavy immobile toys		n.a.
4.17	Projectiles		n.a.
4.18	Aquatic toys and inflatable toys		n.a.
4.19	Percussion caps specifically designed for use in toys and toys using percussion caps		n.a.
4.20	Acoustics		n.a.
4.21	Toys containing a non-electrical heat source		n.a.
4.22	Small balls		n.a.
4.23	Magnets		n.a.
4.24	Yo-yo balls		n.a.

Clause	Safety Requirements	Test results / Remarks	Evaluation
4.25	Toys in conjunction with food		n.a.
5	Toys intended for children under 36 months		n.a.
5.1	General requirements		n.a.
a)	Toys and removable components of toys shall not, whatever their position, fit entirely in the small parts cylinder		n.a.
b)	When tested toys shall not produce any parts which fit entirely in the cylinder or exhibit accessible hazardous sharp edges or accessible hazardous sharp points		n.a.
c)	Metal points and wires with a cross section of 2 mm or less		n.a.
d)	Large and bulky toys		n.a.
e)	Glued wooden toys and toys with glued-on plastic decals		n.a.
f)	The casing of toys		n.a.
g)	Foam toys and toys containing accessible foam components		n.a.
5.2	Toys and toy parts with soft filling		n.a.
a)	Hard and sharp contaminants		n.a.
b)	Soft-filled toys and soft-filled parts of a toy containing small parts		n.a.
c)	Soft-filled toys and soft-filled parts of a toy, containing fibrous filling material.		n.a.
5.3	Plastic sheeting		n.a.
5.4	Cords, chains and electrical cable in toys		n.a.
a)	Cords connected to a self-retraction mechanism and cords in pull- along toys		n.a.
b)	Cords and chains that can form a tangled loop or a noose		n.a.
c)	Fixed loops of cords or chains		n.a.
d)	The perimeter of nooses		n.a.
e)	Force of self-retraction mechanisms for cords in toys		n.a.
f)	Toys with cords intended to be strung across a cradle, cot or perambulator		n.a.
g)	Cords and chains with a free end intended for children under 18 months		n.a.
h)	Cords and chains with a free end on pull-along toys intended for children under 36 months		n.a.
i)	Toys with electrical cables		n.a.
5.5	Liquid-filled toys		n.a.
5.6	Speed limitation of electrically-driven ride-on toys		n.a.
5.7	Glass and porcelain		n.a.
5.8	Shape and size of certain toys		n.a.
5.9	Toys comprising monofilament fibres		n.a.
5.10	Small balls		n.a.
5.11	Play figures		n.a.
5.12	Hemispheric-shaped toys		n.a.
5.13	Suction cups		n.a.
5.14	Straps intended to be worn fully or partially around the neck		n.a.
6	Packaging		n.a.

Clause	Safety Requirements	Test results / Remarks	Evaluation
7	Warnings, marking and instructions for use		
	Marking and instructions for use	The CE marking was not available on the product. Remark: The packaging was not provided.	*
7.1	General		PASS
	Warnings on toys shall not be misleading or incorrect		PASS
	A toy must not wear any warning if it contradicts the intended use of the toy because of its features, dimensions and properties.		PASS
	The warnings shall be preceded by the words "Warning" or "Warnings"		PASS
	The manufacturer shall mark the warnings in a clearly visible, easily legible and understandable and accurate manner on the toy, on an affixed label or on the packaging, if appropriate, include the warnings in the instructions for use.		PASS
	Warnings which determine the decision to purchase the toy shall appear on the consumer packaging or be otherwise clearly visible to the consumer before the purchase.		PASS
	Small toys that are sold without packaging(for example from a display box or from a vending machine) shall have the appropriate warnings affixed to them.		n.a.
7.2	Toys not intended for children under 36 months		PASS
7.3	Latex balloons		n.a.
7.4	Aquatic toys		n.a.
7.5	Functional toys		n.a.
7.6	Hazardous sharp functional edges and points		n.a.
7.7	Projectiles		n.a.
7.8	Imitation protective masks and helmets		n.a.
7.9	Toy kites		n.a.
7.10	Roller skates, inline skates, skateboards and certain other ride-on toys		n.a.
7.11	Toys intended to be attached to or strung across a cradle, cot, or perambulator		n.a.
7.12	Liquid-filled teethingers		n.a.
7.13	Percussion caps specifically designed for use in toys		n.a.
7.14	Acoustics		n.a.
7.15	Toy bicycles		n.a.
7.16	Toys intended to bear the mass of a child		n.a.
7.17	Toys comprising monofilament fibres		n.a.
7.18	Toy scooters		n.a.
7.19	Rocking horses and similar toys		n.a.
7.20	Magnetic/electrical experimental sets		n.a.
7.21	Toys with electrical cables exceeding 300 mm in length		n.a.
7.22	Toys with cords or chains intended for children of 18 months and over but under 36 months		n.a.

Tests according to EN 71-2:2011+A1:2014

Clause	Safety Requirements	Test results / Remarks	Evaluation
4.1	General requirements		PASS
4.2	Toys to be worn on the head		n.a.
4.3	Toy disguise costumes and toys intended to be worn by a child in play		n.a.
4.4	Toys intended to be entered by a child		n.a.
4.5	Soft-filled toys		n.a.

Warning!

Not suitable for children under 36 months.

Small parts.

Choking hazard.

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The tested item was selected by the client. Remaining test material is disposed after 3 months. The report must not be reproduced except in full content without the written approval of the testing laboratory. The report is signed digitally and password protected. For printing use the print option -document and comments-. The amount of minor components may be insufficient to perform the announced tests. In this case the test report will carry the mark: component insufficient for lab test. If testing of all components is required we need a sufficient amount of all minor components.

Migration of certain elements(Category 3)

Test method: EN 71-3

standardized method

Extractable Chromium(VI)& Extractable Chromium (III) - With reference to EN 71 Part 3, analysis was performed by HPLC-ICP-MS.

Elements - With reference to EN 71 Part 3, analysis was performed by ICP-MS.

Extractable Organic Tin -With reference to EN 71 Part 3, analysis was performed by GC-MS.

Parameter	CAS No	Parameter	CAS No
Aluminum (Al): EN 71-3 category 3	7429-90-5	Lead (Pb) EN 71-3 category 3	7439-92-1
Antimony (Sb): EN 71-3 category 3	7440-36-0	Manganese (Mn): EN 71-3 category 3	7439-96-5
Arsenic (As) EN 71-3 category 3	7440-38-2	Mercury (Hg) EN 71-3 category 3	7439-97-6
Barium (Ba): EN 71-3 category 3	7440-39-3	Nickel (Ni): EN 71-3 category 3	7440-02-0
Boron (B): EN 71-3 category 3	7440-42-8	Organo tin compounds DIN EN 71-3	
Cadmium (Cd): EN 71-3 category 3	7440-43-9	Selenium (Se): EN 71-3 category 3	7782-49-2
Chromium III (Cr III) EN 71-3 category 3		Strontium (Sr): EN 71-3 category 3	7440-24-6
Chromium VI (Cr VI) EN 71-3 category 3		Tin (Sn): EN 71-3 category 3	7440-31-5
Cobalt (Co): EN 71-3 category 3	7440-48-4	Zinc (Zn): EN 71-3 category 3	7440-66-6
Copper (Cu): EN 71-3 category 3	7440-50-8		

Flammability test (EN71-2)

Test method: EN 71-2:2011+A1:2014

standardized method

The test methods are used for the purposes of determining the flammability of toys under the particular test conditions specified.

Mechanical test (EN 71-1)

Test method: EN 71-1:2014

standardized method