

Product Technology Service

Report No.: TS2008121706

Test Report

Testing institute : Product Technology Service (Ningbo) Co., Ltd.
6&7F, 59#, Huayu Road,
Yinzhou District, Ningbo 315192 P.R. China

Applicant : Ningbo Yinzhou Raice Co., Ltd.
182# Shizi Street, Haishu Area, Ningbo

Test item(s) : EVA

Model/type : /

Sample Description : /

Material : /

Sample receive date : Nov.07, 2008
Completes date : Nov.11, 2008

Testing location : Product Technology Service (Ningbo) Co., Ltd.

Test specification(s) : 1.EN71-Part1:2005+A4:2007 Mechanical and Physical Properties
2.EN71-Part2: 2006+A1:2007 Flammability
3.EN71-Part 3: 1995 + A1+ AC - Migration of certain elements

Remark : Result of sample EVA is taken from report TS2008110402-1, Date:2008/11/13



Authorized signature: Waterson Liu

Ningbo, Dec.17, 2008

The test results exclusively refer to the samples examined. This report shall not be reproduced except in full without written approval and does not authorize the use of Product Technology Service (Ningbo) Co., Ltd. Label

Test item(s)

No.	Name	Part No.	Part Name
1	EVA	1-1	Red stick
		1-2	Blue stick
		1-3	Yellow stick
		1-4	Orange stick
		1-5	Green stick
		1-6	Red finger(Data cited part 1-1)
		1-7	Red toe(Data cited part 1-1)
		1-8	Yellow finger(Data cited part 1-2)
		1-9	Yellow toe(Data cited part 1-2)
		1-10	Purple finger
		1-11	Purple toe(Data cited part 1-10)
		1-12	Light blue finger
		1-13	Light blue toe(Data cited part 1-12)
		1-14	Red dragonfly and butterfly(Data cited part 1-1)
		1-15	Yellow dragonfly and butterfly(Data cited part 1-3)
		1-16	Orange dragonfly and butterfly(Data cited part 1-4)
		1-17	Green dragonfly and butterfly(Data cited part 1-5)

Remark:

The client declared:

1	Part 1-6,, part 1-7 part 1-14 are the same as part 1-1
2	Part 1-8, part 1-9 are the same as part 1-2
3	Part 1-15 is the same as part 1-3
4	Part 1-16 is the same as part 1-4
5	Part 1-17 is the same as part 1-5
6	Part 1-11 is the same as part 1-10
7	Part 1-13 is the same as part 1-12

The following component was choosed for testing as representative of other components which was make of same material.

1	Part 1-1
2	Part 1-2
3	Part 1-3
4	Part 1-4
5	Part 1-5
6	Part 1-10
7	Part 1-12

Tested data will be quoted to other components with same material according to client requirement.

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1. EN71 - Part1: Mechanical and Physical Properties

Test specification : EN71 - Part1:2005+A4:2007 Mechanical and Physical Properties
Excluding Clause 7.1 of Warnings and Instructions for Use
Excluding Labeling Requirement of Clause 7.2

Test item : See below

Requirement : See below

Applicant's specified age group for testing : Above 3 years

Test Results

Clause	Assessment
4. General requirements	
4.1 Material	Pass
7. Warnings and instructions for use	
7.1 General	#1
7.2 Toys not intended for children under 36 months	#2

Remark :

#1: The attention of the applicant was drawn to the need for the item to be labeled with the name and/or trade name and/or mark and address of the manufacturer or his authorized representative or the importer in EEC on the toy or on its packaging together with a CE mark as specified in clause 7.1 & 88/378/directive . If this information was not fixed to the toy itself, it should be accompanied by a notice in advising the purchaser to retain it.

#2: The applicant certified that they would print the warning statement as specified in clause 7.2 of EN71 part1 on the product or its packaging.

N.B. : Only applicable clauses were shown.

Main test instruments used for this method:

Instrument	Manufactory	Model / Type
Sharp point tester	Tonny	TNC28
Sharp edge tester	Tonny	TNC27
Small part cylinder	Tonny	TNC29

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2. EN71 - Part2: Flammability

Test specification : EN71-Part2: 2006+A1:2007 Flammability
 Test item : See below
 Requirement : See below

Test Results

Clause	Assessment
4.1 General	Pass
---- The following materials shall not be used in the manufacture of toys Cellulose nitrate and materials with the same behaviour in fire Materials with a piled surface which produce surface flash on the approach of a flame	
---- Toys shall not contain flammable gases, flammable liquids and flammable solids	

N.B. : Only applicable clauses were shown.

Main test instruments used for this method:

Instrument	Manufactory	Model / Type
Flammability tester-EN71	Tonny	TNC14

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3. EN71 Part 3: 1995 + A1 + AC - Migration of certain elements

Test method : EN71 – Part 3: 1995 + A1+ AC - Migration of certain elements
 Test item : See below
 Requirement : See below

Test Results

Clause	Assessment
8.1 For coatings of paint, varnish, lacquer, printing ink and similar coatings	NA
8.2 For Polymeric and similar materials including laminates, whether reinforced textiles or not, but excluding other textiles	Pass
8.3 For Paper and paper board	NA
8.4 For Textiles, whether natural or synthetic	NA
8.5 For Glass, ceramic, metallic materials	NA
8.6 For other materials, whether mass colored or not	NA
8.7 For Materials intended to leave a trace	NA
8.8 For Pliable modelling materials , including modelling clays, and gels	NA
8.9 For Paints, including, varnishes, lacquers, glazing powders and similar materials in solid or in liquid form	NA

Part 3 of EN 71 is only applicable for toys or parts of toys - under consideration of a foreseeable and reasonable use - which based on their function, mass, height or other properties will be put into the child's mouth or if there is a foreseeable possibility of sucking and swallowing toys or part of toys.

Analysis results:

As per European Standard on Safety of Toys EN 71 Part 3: 1995 + A1+ AC, soluble toxic element contents are determined by Inductively Coupled Plasma – Optical Emission Spectrometry.

Detection limit : 2mg/kg for each of the 8 toxic elements

Test item(s) No.	Testing element	Sol. Sb	Sol. As	Sol. Ba	Sol. Cd	Sol. Cr	Sol. Pb	Sol. Hg	Sol. Se	Conclusion
	Requirement [mg/kg]	60	25	1000	75	60	90	60	500	
1-1	--	<2	<2	122	<2	<2	<2	<2	5	Pass
1-2	--	<2	<2	<2	<2	<2	<2	<2	6	Pass

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Test item(s) No.	Testing element	Sol. Sb	Sol. As	Sol. Ba	Sol. Cd	Sol. Cr	Sol. Pb	Sol. Hg	Sol. Se	Conclusion
	Requirement [mg/kg]	60	25	1000	75	60	90	60	500	
1-3	--	<2	2	<2	<2	<2	<2	<2	4	Pass
1-4	--	<2	<2	48	<2	<2	<2	<2	4	Pass
1-5	--	<2	<2	<2	<2	<2	<2	<2	5	Pass
1-6	--	<2	<2	122	<2	<2	<2	<2	5	Pass
1-7	--	<2	<2	122	<2	<2	<2	<2	5	Pass
1-8	--	<2	<2	<2	<2	<2	<2	<2	6	Pass
1-9	--	<2	<2	<2	<2	<2	<2	<2	6	Pass
1-10	--	<2	<2	<2	<2	<2	<2	<2	5	Pass
1-11	--	<2	<2	<2	<2	<2	<2	<2	5	Pass
1-12	--	<2	<2	5	<2	<2	<2	<2	4	Pass
1-13	--	<2	<2	5	<2	<2	<2	<2	4	Pass
1-14	--	<2	<2	122	<2	<2	<2	<2	5	Pass
1-15	--	<2	<2	<2	<2	<2	<2	<2	4	Pass
1-16	--	<2	<2	48	<2	<2	<2	<2	4	Pass
1-17	--	<2	<2	<2	<2	<2	<2	<2	5	Pass

Remark:

< = Less than

mg/kg = Milligram per kilogram based on dry weight

Sol. = Soluble

Main test instruments used for this method:

Instrument	Manufactory	Model / Type
ICP-OES	PerkinElmer	2100DV

Sample photo(s), see annex 1

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ANNEX 1

Sample photos, Consists of 3 pages



1: EVA

Remark: According to client's requirement, following photos were supplied by client.



