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TEST REPORT No. FUTY0901845E

Testing of toy for ordered parameters

Arrival in lab: 29.01.2008; Period of analysis: 29.01. - 20.02.2009

Head of analytical department environmental analysis/ product testing: Kerstin Scharrer

General note: Copying this test report partially is permitted only in agreement with the contracted lab. The tests results refer only to the tested item. This report consists of 5 pages. Test methods marked with * are not listed in the amendment of our accreditation certificate. ** Suborder

Product description:

Discs



Test results see next pages

Product description: Discs

Summary	Results
DIN EN 71-1 (safety of toys) – Mechanical and physical properties	pass
DIN EN 71-2 (safety of toys) – Flammability	pass
DIN EN 71-3 (safety of toys) – Migration of certain elements	pass
Phthalates	pass
Nonylphenol	pass

Remark: A separate test report has been issued for the test regarding the Cadmium content.

Test results

- n.a. = not applicable
- n.d. = not determinable
- ms = mixed sample

Sample description:

Sample 1 (ms):	Disc orange + red + green
Sample 2 (ms):	Disc blue & giant ring yellow & multi blubber blue
Sample 3:	Disc red

1. Mechanical and physical properties according to EN 71-1

Test method: DIN EN 71-1: 2008

Clause	Requirements	Results
4	General requirements	
4.1	Material	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	n.a.
4.8	Points and wires	n.a.
4.9	Protruding parts	n.a.
4.10	Parts moving against each other	n.a.
4.10.1	Folding and sliding mechanisms	n.a.
4.10.2	Driving mechanisms	n.a.
4.10.3	Hinges	n.a.
4.10.4	Springs	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.

Product description:	Discs
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Mechanical and physical properties EN 71-1 continued

4.14	Enclosures	n.a.
4.14.1	Toys which a child can enter	n.a.
4.14.2	Masks and helmets	n.a.
4.15	Toys intended to bear the mass of a child	n.a.
4.15.1	Toys propelled by the child or by other means	n.a.
4.15.2	Free-wheeling toy bicycles	n.a.
4.15.3	Rocking horses and similar toys	n.a.
4.15.4	Toys not propelled by a child	n.a.
4.15.5	Scooters	n.a.
4.16	Heavy immobile toys	n.a.
4.17	Projectiles	n.a.
4.17.1	General	n.a.
4.17.2	Projectiles toys without stored energy	n.a.
4.17.3	Projectiles toys with stored energy	n.a.
4.17.4	Bows and arrows	n.a.
4.18	Aquatic toys	n.a.
4.19	Percussion caps specifically designed for use in toys	n.a.
4.20	Acoustics	n.a.
4.21	Toys containing a heat source	n.a.
4.22	Small balls	n.a.
5	Toys intended for children under 36 months	
5.1	General requirements	n.a.
5.2	Filling Materials	n.a.
5.3	Adhesion of plastic sheeting	n.a.
5.4	Cords on toys	n.a.
5.5	Liquid filled toys	n.a.
5.6	Speed limitation of electrically driven 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	Playing figures	n.a.
5.12	Hemispherical toys	n.a.
5.13	Suction cups	n.a.
6	Packaging	pass
7	Warnings and instructions for use	
7.1	General	pass
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	Functional sharp edges and points	n.a.
7.7	Projectiles	n.a.

Product description: Discs

Mechanical and physical properties EN 71-1 continued

7.8	Imitation protective masks and helmets	n.a.
7.9	Toy kites	n.a.
7.10	Roller skates, inline skates and toy skateboards	n.a.
7.11	Toys intended to be 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	Small balls	n.a.
7.19	Scooters	n.a.

2. Flammability according to EN 71-2

Test method: DIN EN 71-2: 2008

4.1	General	pass
4.2	Toys worn on the head with capillary or alike textile materials	n.a.
4.3	Disguise costumes and other toys intended to be worn by the child	n.a.
4.4	Toys intended to entered by a child	n.a.
4.5	Filled soft toys with a capillary or alike textile surface	n.a.

3. Migration of certain elements according to EN 71-3

Sampling and extraction according to DIN EN 71-3:2002

Test method: DIN EN ISO 11885 (E22) / AAS: DIN EN 1483 (E12)

Limit of quantification: 5 mg/kg each

Test results in mg/ kg

Parameter	Limit	Sample 1	Sample 2
Antimony	60	n.d.	n.d.
Arsenic	25	n.d.	n.d.
Barium	1000	5.0	n.d.
Cadmium	75	n.d.	n.d.
Chromium	60	n.d.	n.d.
Lead	90	n.d.	n.d.
Mercury	60	n.d.	n.d.
Selenium	500	n.d.	n.d.

Product description: Discs

Further requirements:

4. Phthalates according to EU directive 2005/84/EC in %

Test method: HM-SAA PV_C_01.13.01
 Limit of quantification: 0,01%

Parameter	Abbrev.	Limit	Sample 1	Sample 2
Dibutylphthalate	DBP	0.1% (sum)	n.d.	n.d.
Benzylbutylphthalate	BBP		n.d.	n.d.
Bis-(2-ethylhexyl) phthalate	DEHP		n.d.	n.d.
Di-n-octylphthalate	DNOP	0.1% (sum)	n.d.	n.d.
Di-isononylphthalate	DINP		n.d.	n.d.
Di-isodecylphthalate	DIDP		n.d.	n.d.

5. Nonylphenol in mg/kg

Test method: in-house method: extr. With KOH + deriv. / analysis with GC/MS
 Limit of quantification: 10 mg/kg

	Sample 1
Nonylphenol (NP)	n.d.

Conclusion

The presented product "Discs" conforms to the requirements of the applied regulations regarding the tested parameters.

Intertek Consumer Goods GmbH
 Warenprüfung • Umweltanalytik • Ingenieurleistung

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