



Report VNFP 083075.1
Test Report



Applicant

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Reference

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Application

Testing of the safety of toys according to EN 71 part 1, 2 and 3.

Test material

UNIMAT 1

Material used in testing was anonymized for laboratory purposes. A detailed sample list is contained in the report.

Issuing and Signatures

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Authorised for Institute
Ing. Judith Pointner

A handwritten signature in blue ink, appearing to read 'Judith Pointner', written over a dotted line.

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1 Order

1.1 Chronology

Date	Received	Order
12.04.2016	14.04.2016	Testing of the safety of toys according to EN 71 part 1, 2 and 3.

1.2 Samples

Nr.	Received	Sample Identification
1	14.04.2016	"UNIMAT 1 Classic"
2	19.04.2016	"UNIMAT 1 Basic"

(Unless otherwise stated samples are provided by the customer.)

2 Findings / Tests performed

2.1 Description of the specimen

The applicant submitted the model kit "**UNIMAT 1 Classic**", which is according to the instruction suitable for children over 12 years, and the model kit "**UNIMAT 1 Basic**", which is suitable for children over 8 years.

This toy is a multifunctional model kit, in which the "UNIMAT 1 Basic" is equipped with 4 functions for sawing, woodturning, drilling and sanding. The "UNIMAT 1 Classic" has additionally the functions for milling and turning.

The machine elements are driven by a 12V motor which is fed from a supplied transformer.

The respective functional parts have sharp edges and/or tips and rotate partially at high speed.

An instruction manual for the assembly and handling of different types of machinery and a tutorial video are in the pack.

2.2 Test according ÖNORM EN 71 part 1, safety of toys - mechanical and physical properties

Test conditions

According to: EN 71 part 1 (a)

Test results

Tested sample: 1 and 2

Point		Results	Comment
4	General requirements		
4.1	Materials	e	1)
4.2	Assembly	nz	2)
4.3	Flexible plastic foils	e	3)
4.4	Toy bag	nz	
4.5	Glass	nz	
4.6	Swelling material	nz	
4.7	Edges	e	4)
4.8	Spikes and wire	e	4)
4.9	Outstanding parts	e	4)
4.10	Divide those against each other move		
4.10.1	Folding and sliding mechanisms	nz	
4.10.2	Drive mechanism	e	5)
4.10.3	Hinges	nz	
4.10.4	Springs	nz	
4.11	Toys, which can be taken in the mouth	nz	
4.12	Balloons	nz	
4.13	Cords for toy kites and other flying toy	nz	
4.14	Casings		
4.14.1	Toys, which can taken a child inside	nz	
4.14.2	masks and helmet	nz	
4.15	Toy, which is to carry the weight of a child		
4.15.1	Toy, which is moved by the child or on other way	nz	
4.15.2	Play bicycles	nz	
4.15.3	Rocking-horse and similar toys	nz	
4.15.4	Toy, which is not moved by a child	nz	
4.15.5	Toy scooter	nz	
4.16	Heavy, immovable toy	nz	

Point		Results	Comment
4.17	Projectile toys		
4.17.1	General information	nz	
4.17.2	Projectile toy without stored energy	nz	
4.17.3	Projectiles with stored energy	nz	
4.17.4	Arrow and elbow	nz	
4.18	Water toy and inflatable toy	nz	
4.19	Amorces, which are particularly for the use in toy intended	nz	
4.20	Acoustic requirements		
4.20.1	Exposure categories for time-averaged sound pressure level	nz	
4.20.2	Limits on the emission sound pressure level	nz	
4.21	Toy with non-electrical heat source	nz	
4.22	Small bullets	nz	
4.23	Magnets		
4.23.1	General information	nz	
4.23.2	Toys, except electrical experimental sets with magnets for children over 8 years	nz	
4.23.3	Electrical experimental sets with magnets for children over 8 years	nz	
4.24	Yoyo-balls	nz	
4.25	Toys in contact with food	nz	
5	Requirements at toy for children under 36 months		
5.1	General requirements	nz	
5.2	Toys and toy parts with soft filling	nz	
5.3	plastic foils	nz	
5.4	Cords, chains and electrical lines of toys	nz	
5.5	Toy with liquid filling	nz	
5.6	Speed limiting for electrically propelled toy	nz	
5.7	Glass and porcelain	nz	
5.8	Form and size of certain toys	nz	
5.9	Toy with monofile fibers	nz	
5.10	Small bullets	nz	
5.11	Toy figures	nz	
5.12	Semispherical toys	nz	
5.13	Suckers	nz	
5.14	Toys with straps to be worn completely or partially around the neck	nz	

Comment

- 1) The toy and the materials used for the toy are outwardly clean and free from parasite
- 2) In the manual, the note „Children should only use the machines under very strict supervision by a responsible adult.“ is present.
- 3) The thickness of the flexible plastic foil is 0.09 mm, and is so above the minimum value of 0.038 mm.
- 4) Functional edges, tips and outstanding parts are present. Appropriate warnings are contained in the instructions for use.
- 5) There is an appropriate warning, that the assembly of Unimat machine parts is done correctly, especially the coverage of motor and countershaft, before plugging in the transformer.
- 6) The company name, the address and the CE marking are mounted on its packing visible, legible and durable.
- 7) The note „Not suitable for children under 8 years of age.“, the graphical age warning symbol and „Warning! Small parts can be swallowed and cause risk of suffocation or choking.“ are attached to the box.
- 8) In the instructions for use is the warning „Children should only use the machines under very strict supervision by a responsible adult.“ present. Also included are instructions on precautions. It should be noted that the user can cause severe injuries if handled improperly, and that the toy don't leave in reach of small children.
- 9) On the packaging of the toy and in the attached instructions for use is drawn to the possible hazards from the functional sharp tips and cutting edges.

4 Remarks

Validity

There are no regulations concerning duration of validity in the individual test standards. As the results of the examinations refer only to the submitted and examined samples, the report is valid for these for an unlimited period. A period of validity specified as part of an expert evaluation is in the discretion of the consultant or the ÖTI.

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All tests and services are performed under a quality management system according to EN ISO/IEC 17025 respectively EN ISO/IEC 17065.

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In this report test conditions of individual accredited test procedures are marked with (a).

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