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Wien / 11.07.2019 / june

## Test Report VN210 156289.1

### Application

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

### Test Material

model kit "UNIMAT ML"

The test material used for testing was made anonymous for laboratory purposes.  
A detailed sample list is included in the document.

### Issuing

Original Issuing, 11.07.2019

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OETI - Institute for Ecology, Technology and Innovation GmbH



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Manager Department Textile Technology & PPE



## 1 Application

Auftragsdatum	Auftragsumfang
17.06.2019	Testing of the safety of toys according to EN 71 part 1, 2 and 3.

## 2 Samples

No.	Receipt	Sample Identification
1	25.06.2019	model kit "UNIMAT ML"

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

### 3 Tests Performed / Results

#### 3.1 Description of the specimen

The applicant submitted the model kit "UNIMAT ML", which is according to the instruction suitable for children over 8 years.

This toy is a multifunctional model kit with 4 functions for sawing, woodturning, drilling and sanding.

The machine elements are driven by a 12V-engine 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.

#### 3.2 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

Point		Results	Comment
<b>4</b>	<b>General requirements</b>		
4.1	Materials	e	1)
4.2	Assembly	e	2)
4.3	Flexible plastic foils	nz	
4.4	Toy bag	e	3)
4.5	Glass	nz	
4.6	Swelling material	nz	
4.7	Edges	e	4)
4.8	Spikes and wire	e	5)
4.9	Outstanding parts	nz	
4.10	Divide those against each other move		
4.10.1	Folding and sliding mechanisms	nz	
4.10.2	Drive mechanism	e	6)
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	

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	

<b>5</b>	<b>Requirements at toy for children under 36 months</b>		
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	

<b>6</b>	<b>Packing</b>		
6.1	Requirements	e	7)

<b>7</b>	<b>Warning references and instructions</b>		
7.1	General requirements	e	8)
7.2	Toy, which is not intended for children under 36 months	e	9)
7.3	Latex Balloons	nz	
7.4	Water toy	nz	
7.5	Function toy	e	10)
7.6	Functional sharp edges and spikes	e	11)
7.7	Projectiles	nz	
7.8	Imitations of protective masks and protective helmets	nz	
7.9	toy kites	nz	
7.10	Roller skates, inline skates, skateboards and other ride-on toys	nz	
7.11	Toy, which becomes strained over a cradle or a buggy crosswise	nz	
7.12	Biting rings with liquid filling	nz	
7.13	Amorces, which are particularly for the use in toy intended	nz	

7.14	Acoustic requirements	nz	
7.15	Play bicycles	nz	
7.16	Toy, which is to carry the weight of a child	nz	
7.17	Toy with monofilament fibers	nz	
7.18	Toy scooter	nz	
7.19	Rocking horses and similar toys	nz	
7.20	Electrical experimental sets with magnets	nz	
7.21	Toys with electrical lines, which is longer than 300 mm	nz	
7.22	Toys with cords or chains for children 18 months and older, but under 36 months	nz	

e	comply	ng	not tested
en	comply not	nz	not applicable
		p	testing necessary

### Comment

- 1) The toy and the materials used for the toy are outwardly clean and free from parasite
- 2) In the instructions, the note "Only use under direct adult supervision" is available.
- 3) The opening size of the bag is smaller than 380 mm.
- 4) Functional edges are present. Corresponding warnings are included in the instructions for use.
- 5) As essential to the functioning of the toy, dangerous, sharp, functional tips may be used on toys for children 36 months and older.
- 6) There is an appropriate warning that the machine must be connected to the power supply only after the installation has been completed, in particular the engine / gearbox cover.
- 7) The thickness of the flexible plastic foil is 0,31 mm, and is so above the minimum value of 0.038 mm.
- 8) The company name, the address and the CE marking are visible, legible and durable
- 9) The note "8+" is attached to the packaging. **The graphic age warning symbol is missing.**
- 10) In the operating instructions the warning "Use only under direct adult supervision" is displayed. It also includes instructions on precautions.
- 11) The enclosed operating instructions point out possible dangers due to the function-related sharp edges.

### 3.3 Test according ÖNORM EN 71 part 2 „safety of toys - flammability“

#### Test conditions

According to: EN 71 part 2

#### Test results

Tested sample: 1

Point		Results	Comment
<b>4</b>	<b>Requirements</b>		
4.1	General	e	1)
4.2	On the head-mounted toys	nz	
4.3	Toy disguise costumes and toys intended to be worn by a child in play	nz	
4.4	Walk-on toys from child	nz	
4.5	Soft-filled toys	nz	
	e      comply	ng	not tested
	en     comply not	nz	not applicable
		p	testing necessary

#### Comment

1) For the production of the model kits no celluloid (cellulose nitrate) was used.

### 3.4 Test according ÖNORM EN 71 part 3 "safety of toys, migration of special elements"

Since the model kit is only suitable for children from the age of 8 years and according to EN 71 Part 3 at this age there is no danger of the toy being put into the mouth, the migration test according to EN 71 Part 3 is not required.

## 4 Evaluation

Based on the results of the tests carried out, it can be stated that the submitted model kit named **"UNIMAT ML"** including the original packaging complies with the requirements and provisions of EN 71 Parts 1, 2 and 3

#### Remarks:

*The respective comments are to be considered*

*Note to EN 71 Part 3: See explanation of point 2.4.*

## 5 Photo Documentation



## 6 Remarks

### Period of 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 OETI. The applicability of results and expert evaluations for materials not tested is in the responsibility of the applicant. Whereby an apportionment of results as well as any specified period of validity can only be done for identically constructed products and only as long as the product is produced unchanged. Possible national or international restrictions concerning the terms of usability of test and classification reports have to be considered; this is not the responsibility of the test laboratory.

### Sample Material

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### Issuing

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In this report individual non-accredited test procedures are marked with \*. Nevertheless, the analysis was also carried out for these parameters at the same level of quality as for the accredited parameters.

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End of Report