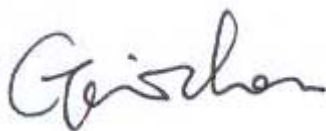


The following information was submitted and identified by/on behalf of the client:

- Applicant : Munchkin and Bear
- Address : 10 Charlmont Road London SW17 9AL and 7 Colorado Ave Bardon QLD 4065
- Sample Name : TPU baby play mat
- Receive Date : Jun. 20, 2018
- Testing period : Jun. 20, 2018 - Jun. 26, 2018
- Test Requested : 1. As specified by client, determination of the mechanical and physical Properties in the submitted sample(s) assigned by applicant according to EN71-1: 2014 "Safety of toys- Part 1: Mechanical and Physical Properties".
2. As specified by client, determination of the flammability in the submitted sample(s) assigned by applicant according to EN71-2: 2011 + A1: 2014 "Safety of toys- Part 2: Flammability".
3. As specified by client, determination of the migration of certain elements in the submitted sample(s) according to EN71-3: 2013 + A2: 2017 "Safety of toys- Part 3: Migration of certain elements".
- Test Method : Please refer to the next page(s).
- Test Result(s) : Please refer to the next page(s).
- Conclusion(s) : 1. The test result(s) in the submitted sample(s) assigned by applicant **Complies with** the requirements on EN71-1: 2014 "Safety of toys- Part 1: Mechanical and Physical Properties" (Excluding packaging and labeling information).
2. The test result(s) in the submitted sample(s) assigned by applicant **Complies with** the requirements on EN71-2: 2011 + A1: 2014 "Safety of toys- Part 2: Flammability".
3. The test result(s) in the submitted sample(s) assigned by applicant **Complies with** the requirements on EN71-3: 2013 + A2: 2017 "Safety of toys- Part 3: Migration of certain elements".

Authorized signature:



Lab Manager: Gavin Zhou



Jun. 27, 2018

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**Test Result(s):****1. Mechanical and Physical Properties****Test method:** EN71-1: 2014

Safety of toys-Part 1: Mechanical and physical properties

Labelled age grading : Not stated

Applicant's specified : All ages

age group for testing

Age grading for test : All ages

Clause	Test Item	Assessment
<b>4.</b>	<b>Safety Requirements</b>	
4.1	Material cleanliness (by visual assessment)	PASS
4.2	Assembly	NA
4.3	Flexible plastic sheeting	NA
4.4	Toy bags	NA
4.5	Glass	NA
4.6	Expanding materials	NA
4.7	Edges	PASS
4.8	Points and metallic wires	PASS
4.9	Protruding parts	NA
4.10	Parts moving against each other	NA
4.10.1	Folding and sliding mechanisms	NA
4.10.2	Driving mechanisms	NA
4.10.3	Hinges	NA
4.10.4	Springs	NA
4.11	Mouth-actuated toys and other toys intended to be put in the mouth	NA
4.12	Balloons	NA
4.13	Cords of toy kites and other flying toys	NA
4.14	Enclosures	NA
4.14.1	Toys which a child can enter	NA
4.14.2	Masks and helmets	NA
4.15	Toys intended to bear the mass of a child	NA
4.15.1	Toys propelled by a child or by other means	NA
4.15.2	Toy bicycles	NA
4.15.3	Rocking horses and similar toys	NA
4.15.4	Toys not propelled by a child	NA
4.15.5	Toy scooters	NA

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Clause	Test Item	Assessment
4.16	Heavy immobile toys	NA
4.17	Projectiles	NA
4.17.2	Projectile toys without stored energy	NA
4.17.3	Projectile toys with stored energy	NA
4.17.4	Bows and arrows	NA
4.18	Aquatic toys and inflatable toys	NA
4.19	Percussion caps specifically designed for use in toys and toys using percussion caps	NA
4.20	Acoustics	NA
4.20.2.2	Close-to-the-ear toys	NA
4.20.2.3	Table-top or floor toys	NA
4.20.2.4	Hand-held toys	NA
4.20.2.5	Toys using headphones or earphones	NA
4.20.2.6	Rattles	NA
4.20.2.7	Squeeze toys	NA
4.20.2.8	Pull-along or push toys	NA
4.20.2.9	Percussion toys	NA
4.20.2.10	Wind toys	NA
4.20.2.11	Cap-firing toys	NA
4.20.2.12	Voice toys	NA
4.21	Toys containing a non-electrical heat source	NA
4.22	Small balls	NA
4.23	Magnets	NA
4.23.2	Toys other than magnetic/electrical experimental sets intended for children over 8 years	NA
4.23.3	Magnetic/electrical experimental sets intended for children over 8 years	NA
4.24	Yo-yo balls	NA
4.25	Toys attached to food	NA
<b>5.</b>	<b>Toys intended for children under 36 months</b>	
5.1	General requirements	PASS
5.2	Soft-filled toys and soft-filled parts of a toy	NA
5.3	Plastic sheeting	NA
5.4	Cords, chains and electrical cables in toys	NA
5.5	Liquid-filled toys	NA
5.6	Speed limitation of electrically-driven ride-on toys	NA
5.7	Glass and porcelain	NA

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Clause	Test Item	Assessment
5.8	Shape and size of certain toys	NA
5.9	Toys comprising monofilament fibres	NA
5.10	Small balls	NA
5.11	Play figures	NA
5.12	Hemispheric-shaped toys	NA
5.13	Suction cups	NA
5.14	Straps intended to be worn fully or partially around the neck	NA
<b>6</b>	<b>Packaging</b>	NA
<b>7</b>	<b>Warnings, markings and instructions for use</b>	
7.1	General	PASS
7.2	Toys not intended for children under 36 months	NA
7.3	Latex balloons	NA
7.4	Aquatic toys	NA
7.5	Functional toys	NA
7.6	Hazardous sharp functional edges and points	NA
7.7	Projectiles	NA
7.8	Imitation protective masks and helmets	NA
7.9	Toy kites	NA
7.10	Roller skates, inline skates, skateboards and certain other ride-on toys	NA
7.11	Toys intended to be attached to or strung across a cradle, cot, or perambulator	NA
7.12	Liquid-filled teethers	NA
7.13	Percussion caps specifically designed for use in toys	NA
7.14	Acoustics	NA
7.15	Toy bicycles	NA
7.16	Toys intended to bear the mass of a child	NA
7.17	Toys comprising monofilament fibres	NA
7.18	Toy scooters	NA
7.19	Rocking horses and similar toys	NA
7.20	Magnetic/electrical experimental sets	NA
7.21	Toys with electrical cables exceeding 300 mm in length	NA
7.22	Toys with cords or chains intended for children of 18 months and over but under 36 months	NA

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Labeling requirement (Washing/Cleaning instruction, CE mark, importer / manufacturer name and address, product identification) according to the Directive 2009/48/EC – Safety of toys

Summary table:

Items	Observation Result	Location
Washing/Cleaning instruction	NA	/
CE mark	Absent	/
Importer's Name & Address	Absent	/
Manufacturer's Name & Address	Absent	/
Product ID	Absent	/

- Note:**
1. NA = Not Applicable.
  2. 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 on its packaging together with a CE mark as specified in 2009/48/EC 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. Flammability

**Test method:** EN71-2: 2011 + A1: 2014

Safety of toys-Part 2: Flammability

Clause	Test Item	Assessment
<b>4</b>	<b>Requirements</b>	
4.1	General requirements	PASS
4.2	Toys to be worn on the head	NA
4.2.2	Beards, moustaches, wigs, etc., made from hair, pile or material with similar features(e.g. free-hanging ribbons, paper, cloth strands or other flowing elements), which protrude 50mm or more from the surface of the toy	NA
4.2.3	Beards, moustaches, wigs, etc., made from hair, pile or material with similar features(e.g. free-hanging ribbons, paper, cloth strands or other flowing elements), which protrude less than 50mm from the surface of the toy	NA
4.2.4	Full or partial moulded head masks	NA
4.2.5	Flowing elements of toys to be worn on the head (except those covered by 4.2.2 and 4.2.3), hoods, head-dresses, etc. and masks not covered by 4.2.4 which partially or fully cover the head(e.g. fabric and cardboard masks, eye masks, face masks), but excluding those covered by 4.3	NA
4.3	Toy disguise costumes and toys intended to be worn by a child in play	NA
4.4	Toys intended to be entered by a child	NA
4.5	Soft-filled toys	NA

- Note:** 1. NA = Not Applicable.

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## Test Sample Description

Material No.	Material Description
<b>01</b>	Play mat with gray printing
<b>02</b>	Play mat with beige printing

## 3. Migration of certain elements

**Test Method:** EN71-3: 2013 + A2: 2017

Safety of toys-Part 3: Migration of certain elements

<u>Test item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>01</u>	<u>02</u>
Soluble Aluminum (Al)	70000	mg/kg	50	N.D.	N.D.
Soluble Antimony (Sb)	560	mg/kg	10	N.D.	N.D.
Soluble Arsenic (As)	47	mg/kg	10	N.D.	N.D.
Soluble Barium (Ba)	18750	mg/kg	50	N.D.	N.D.
Soluble Boron (B)	15000	mg/kg	50	N.D.	N.D.
Soluble Cadmium (Cd)	17	mg/kg	10	N.D.	N.D.
Soluble Chromium (III)	460	mg/kg	5	N.D.	N.D.
Soluble Chromium (VI)	0.2	mg/kg	0.2	N.D.	N.D.
Soluble Cobalt (Co)	130	mg/kg	10	N.D.	N.D.
Soluble Copper (Cu)	7700	mg/kg	50	N.D.	N.D.
Soluble Lead (Pb)	160	mg/kg	10	N.D.	N.D.
Soluble Manganese (Mn)	15000	mg/kg	50	N.D.	N.D.
Soluble Mercury (Hg)	94	mg/kg	10	N.D.	N.D.
Soluble Nickel (Ni)	930	mg/kg	10	N.D.	N.D.
Soluble Selenium (Se)	460	mg/kg	10	N.D.	N.D.
Soluble Strontium (Sr)	56000	mg/kg	50	N.D.	N.D.
Soluble Tin (Sn)	180000	mg/kg	50	N.D.	N.D.
Soluble Organic Tin	12	mg/kg	5	N.D.	N.D.
Soluble Zinc (Zn)	46000	mg/kg	50	N.D.	N.D.
<b>Conclusion(s)</b>				PASS	PASS

**Note:** 1. MDL = Method Detection Limit;  
2. N.D. = Not Detected (<MDL).

**Remark:** This report replaces the report No.G180619B14EN, Date: Jun. 26, 2018.

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Sample Photo(s):



GIG authenticate the photo(s) on original report only

**\*\*\*End of Report\*\*\***

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