

TEST REPORT

SAMPLE INFORMATION

1. Applicant:
2. Applicant Address:
3. Sample Name: non-woven felt
4. Manufacturer:
5. Manufacturer Address:
6. Sample received date: Oct. 17, 2013
7. Testing period: Oct. 17-22, 2013

REMARKS:

1. The test report is valid for above tested sample only and shall not be reproduced in part without written approval of the company.
2. Characterization & Condition of sample: Normal.
3. Ambient Condition During Testing: (15~22) °C, (20~40) %RH.

CONCLUSION:

The submitted samples passed

EN71 Part 1:2011,	Mechanical and Physical Properties
EN71 Part 2:2011;	Flammability
EN71 Part 3:2013,	Migration of Certain Elements

This statement is based upon the testing of the submitted samples. It is incumbent on the manufacturer to assure the constant quality of the product.

Signed for Shenzhen TOBY



Justin Zhang
Manager

TEST REPORT

TESTS CONDUCTED:

(I) MECHANICAL AND PHYSICAL PROPERTIES

AS PER EUROPEAN STANDARD ON SAFETY OF TOYS EN71-1:2011

APPROPRIATE AGE GROUP FOR TESTING: OVER 3 YEARS.

CLAUSE	TESTING ITEMS	ASSESSMENT
4.1	MATERIAL CLEANLINESS.....	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 METALLIC WIRES.....	N/A
4.9	PROTRUDING PARTS.....	N/A
4.10	PARTS MOVING AGAINST EACH OTHER.....	N/A
4.10.1	FLODING 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
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 A CHILD OR BY OTHER MEANS.....	N/A
4.15.1.1	GENERAL.....	N/A
4.15.1.2	WARNINGS AND INSTRUCTIONS FOR USE.....	N/A
4.15.1.3	STRENGTH.....	N/A
4.15.1.4	STABILITY.....	N/A
4.15.1.5	BRAKING.....	N/A

TEST REPORT

4.15.1.6	TRANSMISSION AND WHEEL ARRANGEMENT.....	N/A
4.15.2	FREE-WHEELING TOY BICYCLES.....	N/A
4.15.2.1	GENERAL.....	N/A
4.15.2.2	INSTRUCTIONS FOR USE.....	N/A
4.15.2.3	SEAT PILLAR MINIMUM INSERTION MARK.....	N/A
4.15.2.4	BRAKING REQUIREMENTS.....	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	TOYS SCOOTERS.....	N/A
4.15.5.1	GENERAL.....	N/A
4.15.5.2	WARNINGS AND INSTRUCTIONS FOR USE.....	N/A
4.15.5.3	STRENGTH.....	N/A
4.15.5.4	ADJUSTABLE AND FOLDING STEERING TUBES.....	N/A
4.15.5.5	BRAKING.....	N/A
4.15.5.6	WHEEL SIZE.....	N/A
4.15.5.7	PROTRUDING PARTS.....	N/A
4.16	HEAVY IMMOBILE TOYS.....	N/A
4.17	PROJECTILES.....	N/A
4.17.1	GENERAL.....	N/A
4.17.2	PROJECTILE TOYS WITHOUT STORED ENERGY.....	N/A
4.17.3	PROJECTILE 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 AND TOYS USING PERCUSSION CAPS.....	N/A
4.20	ACOUSTICS.....	N/A
4.21	TOYS CONTAINING A NON-ELECTRICAL HEAT SOURCE.....	N/A
4.22	SMALL BALLS.....	N/A
4.23	MAGNETS.....	N/A
4.23.1	GENERAL.....	N/A
4.23.2	TOYS OTHER THAN MAGNETIC/ELECTRICAL EXPERIMENTAL SET INTENDED FOR CHILDREN OVER 8 YEARS.....	N/A

TEST REPORT

4.23.3	MAGNETIC/ELECTRICAL EXPERIMENTAL SET INTENDED FOR CHILDREN OVER 8 YEARS.....	N/A
4.24	YO-YO BALLS.....	N/A
4.25	TOYS ATTACHED TO FOOD.....	N/A
5	TOYS INTENDED FOR CHILDREN UNDER 36 MONTHS.....	PASS
5.1	GENERAL REQUIREMENTS.....	N/A
5.2	SOFT-FILLED TOYS AND SOFT-FILLED PART OF A TOY.....	N/A
5.3	PLASTIC SHEETING.....	N/A
5.4	CORDS, CHAINS AND ELECTRICAL CABLES IN TOYS.....	N/A
5.5	LIQUID-FILLED TOYS.....	N/A
5.6	SPEED LIMITATION OF ELECTRICALLY-DRIVEN REDE ON 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	PLAY FIGURES.....	N/A
5.12	HEMISPHERIC-SHAPED TOYS.....	N/A
5.13	SUCTION CUPS.....	N/A
5.14	STRAPS INTENDED TO BE WORN FULL OR PARTIALLY AROUND THE NECK	N/A
6	PACKAGING.....	PASS
7	WARNINGS AND INSTRUCTIONS FOR USE.....	N/A
7.1	GENERAL.....	N/A
7.2	TOYS NOT INTENDED FOR CHILDREN UNDER 36 MONTHS.....	N/A
7.3	LATEX BALLOONS.....	N/A
7.4	AQUATIC TOYS.....	N/A
7.5	FUNCTIONAL TOYS.....	N/A
7.6	HAZARDOUS SHARP FUNCTIONAL EDGES AND POINTS.....	N/A
7.7	PROJECTILES.....	N/A
7.7.1	TOYS WITH PROJECTILES WHICH ARE ABLE TO DISCHARGE AN OBJECT OTHER THAN THAT PROVIDED WITH THE TOY.....	N/A
7.7.2	TOYS CAPABLE OF DISCHARGING A PROJECTILE WITH A KINETIC ENERGY GREATER THAN 0.08J.....	N/A

TEST REPORT

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 TEETHERS.....	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	TOY SCOOTERS.....	N/A
7.19	ROCKING HORSES AND SIMILAR TOYS.....	N/A
7.20	MAGNETIC/ELECTRICAL EXPERIMENTS SETS.....	N/A
7.21	TOYS WITH ELECTRICAL CABLES EXCEEDING 300MM IN LENGTH	N/A
7.22	TOYS WITH CORDS OR CHAINS INTENDED FOR CHILDREN OF 18 MONTHS AND OVER BUT UNDER 36 MONTHS.....	N/A
8	TEST METHODS.....	N/A
8.1	GENERAL REQUIREMENTS FOR TESTING.....	N/A
8.2	SMALL PARTS CYLINDER.....	N/A
8.3	TORQUE TEST.....	N/A
8.4	TENSION TEST.....	N/A
8.5	DROP TEST.....	N/A
8.6	TIP OVER TEST.....	N/A
8.7	IMPACT TEST.....	N/A
8.8	COMPRESSION TEST.....	N/A
8.9	SOAKING TEST.....	N/A
8.10	ACCESSIBILITY OF A PART OR COMPONENT.....	N/A
8.11	SHARPNESS OF EDGES.....	N/A
8.12	SHARPNESS OF POINTS.....	N/A
8.13	FLEXIBILITY OF METALLIC WIRES.....	N/A
8.14	EXPANDING MATERIALS.....	N/A

TEST REPORT

8.15	LEAKAGE OF LIQUID-FILLED TOYS.....	N/A
8.16	GEOMETRIC SHAPE OF CERTAIN TOYS.....	N/A
8.17	DURABILITY OF MOUTH-ACTUATED TOYS.....	N/A
8.18	FOLDING OR SLIDING MECHANISMS.....	N/A
8.19	ELECTRIC RESISTIVITY OF CORDS.....	N/A
8.20	CORD CROSS-SECTIONAL DIMENSION.....	N/A
8.21	STATIC STRENGTH.....	N/A
8.22	DYNAMIC STRENGTH.....	N/A
8.23	STABILITY.....	N/A
8.24	DETERMINATION OF KINETIC ENERGY.....	N/A
8.25	PLASTIC SHEETING.....	N/A
8.26	BRAKE PERFORMANCE.....	N/A
8.27	STRENGTH OF TOY SCOOTER STEERING TUBES.....	N/A
8.28	DETERMINATION OF EMISSION SOUND PRESSURE LEVELS.....	N/A
8.29	DETERMINATION OF SPEED OF ELECTRICALLY DRIVEN RIDE-ON TOYS.....	N/A
8.30	MEASUREMENT OF TEMPERATURE RISES.....	N/A
8.31	TOY CHEST LIDS.....	N/A
8.32	SMALL BALLS AND SUCTION CUPS TEST.....	N/A
8.33	TEST FOR PLAY FIGURES.....	N/A
8.34	TENSION TEST FOR MAGNETS	N/A
8.35	MAGNETIC FLUX INDEX	N/A
8.36	PERIMETER OF CORDS AND CHAINS	N/A
8.37	YO-YO BALLS MEASUREMENTS	N/A
8.38	BREAKAWAY FEATURE SEPARATION TEST	N/A
8.39	SELF-RETRACTING CORDS	N/A
8.40	LENGTH OF CORDS, CHAINS AND ELECTRICAL CABLES	N/A
	CE-MARKING.....	PASS

TEST REPORT

(II) FLAMMABILITY

AS PER EUROPEAN STANDARD ON SAFETY OF TOYS EN71 PART 2:2011

CLAUSE	TESTING ITEMS	ASSESSMENT
4.1	GENERAL	PASS
4.2	TOYS TO BE WORN ON THE HEAD	N/A
4.3	TOY DISGUISE COSTUMES AND TOYS INTENDED TO BE WORN BY A CHILD IN PLAY	N/A
4.4	TOYS INTENDED TO BE ENTERED BY A CHILD	N/A
4.5	SOFT FILLED TOYS WITH A PILED OR TEXTILE SURFACE	PASS

The following materials shall not be present in the manufacture of toys:

- Celluloid (cellulose nitrate), except when used in varnish, paint or glue, or in balls of the type used for table tennis or similar games, and materials with the same behaviour in fire as celluloid. Specific materials to which the test flame is applied in order to check compliance of the toy with requirements in 4.2 to 4.5 are considered to comply with this requirement if the toy meets its appropriate requirements in 4.2 to 4.5;
- Materials with a piled surface which produce surface flash on the approach of a flame. Piled surfaces showing no momentary area of flame over the area of the piled surface remote from the test flame are considered to meet this requirement;
- Highly flammable solids.

In addition, toys shall not contain flammable gases, highly flammable liquids, flammable liquids, flammable gels except as provided for below:

- Flammable liquids, flammable gels and preparations supplied in sealed containers having a maximum volume of 15 ml per container;
- Highly flammable liquids and flammable liquids being entirely retained within a porous material in capillary channels of writing instruments;
- Flammable liquids with a viscosity greater than $260 \times 10^{-4} \text{ m}^2/\text{s}$ corresponding to a flow time of more than 38 s when determined in accordance with EN ISO 2431 using cup No. 6;
- Highly flammable liquids contained in toys covered in EN 71-5.

NOTE: Different legal requirements may exist in non-EU countries.

TEST REPORT

(III) MIGRATION OF CERTAIN ELEMENT

AS PER EUROPEAN STANDARD ON SAFETY OF TOYS EN71 PART 3:2013, ONLY FOR TOYS AND PARTS OF TOYS WHICH DUE TO THEIR FUNCTION OR IN FORESEEABLE BEHAVIOR CAN BE SWALLOWED OR ON WHICH IT WILL BE SUCKED OR LICKED.

TESTS CONDUCTED:

TESTING ITEMS		ASSESSMENT
Textiles, whether natural or synthetic.....		PASS
(1):	Yellow Body	PASS
(2):	Green Body	PASS
(3):	Blue Body	PASS

TEST REPORT

Result in mg/kg

In dry, brittle, powder-like or pliable toy material, the migration limits for toys or components of toys, shall not be exceeded:

Element	(1)	(2)	(3)	MDL (mg/kg)	Limit (mg/kg)
Aluminium	ND	63	ND	50	70000
Antimony	ND	ND	ND	10	560
Arsenic	ND	ND	ND	10	47
Barium	ND	ND	ND	50	18750
Boron	ND	ND	ND	50	15000
Cadmium	ND	ND	ND	10	17
Chromium (III)	ND	ND	ND	5	460
Chromium (VI)	ND	ND	ND	0.18	0.2
Cobalt	ND	ND	ND	10	130
Copper	ND	ND	ND	50	7700
Lead	ND	ND	ND	10	160
Manganese	ND	ND	ND	50	15000
Mercury	ND	ND	ND	10	94
Nickel	ND	ND	ND	10	930
Selenium	ND	ND	ND	10	460
Strontium	ND	ND	ND	50	56000
Tin	ND	ND	ND	4.9	12
Organic tin	ND	ND	ND	4.9	180000
Zinc	ND	ND	ND	50	46000

Remark: MDL = Method Detection Limit

ND = Not Detected(<MDL)

"N/A" means "Not applicable."

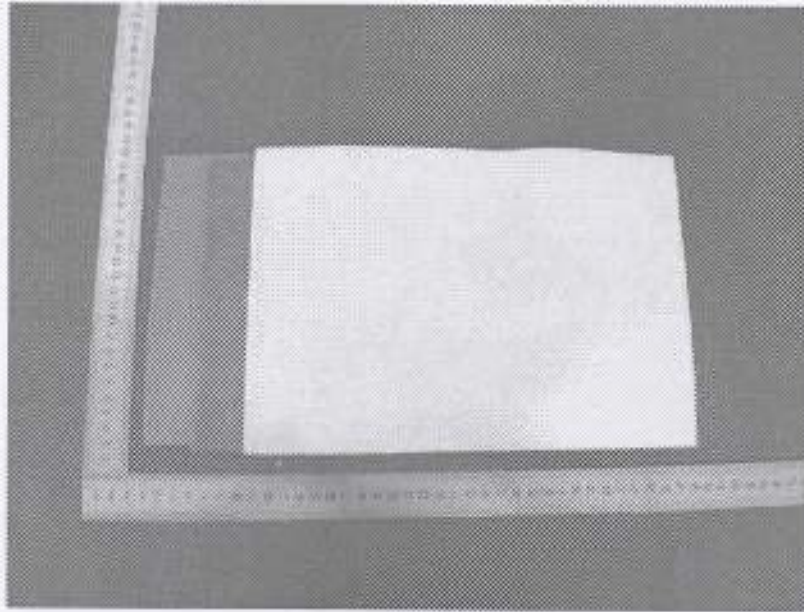
The analytical results were not adjusted by subtracting the analytical correction.

Heavy Metal Element Analysis was performed by Inductively Coupled Plasma Spectrometry.

Only applicable clauses were shown.

TEST REPORT

Photograph of Sample



***** (END OF REPORT) *****