

Test Report

Number: GZHH00384930

Applicant: SHANTOU WAR WOLF OUTDOOR PRODUCTS
FACTORY
HOUXI VILLAGE, LONGDU TOWN, CHENGHAI
DISTRICT SHANTOU GUANGDONG PROVINCE
515825, CHINA

Date: Dec 04, 2020

Sample Description:

Six (6) sets of tested sample said to be :

Item Name : **Protective Equipment**

Client Reference Information : G01、G02、H02、K04、K1、K2、K3、M01、M02、M03、M04、M06、
M09、M10K、M88、M92、M9、SD01、V10K、V10S、V10、V11、V12、
V14K、V14S、ZL1、ZL2、ZL3、ZL4、ZL5、ZL6、ZL7、ZL8、ZL9、ZL10、
ZL11、ZL12、ZL13、ZL14、ZL15、ZL16、ZL17、ZL18、ZL19、ZL20、
ZL-EWG01、ZL-EWG02、ZL-EWG03、ZL-EWG04、ZL-EWG05、
ZL-EWG06、ZL-EWG07、ZL-EWG08、ZL-EWG09、ZL-EWG10、
ZL-EWG11、ZL-EWG12、ZL-EWG13、ZL-EWG14、ZL-EWG15、
ZL-EWG16、ZL-EWG17、ZL-EWG18、ZL-EWG19、ZL-EWG20、V14、V15、
V16、V1、V2、V3、V4、V6、V7、V8、V9、ZL5、M016、M017、CFZ
Above sample information was submitted and/or identified by the client and it was
not verified by laboratory.

Quantity : 7
Labelled Age Group : "3+"
Appropriate Age Grading for Testing : Over 3 years

Packaging Provided by Applicant : Yes

Country of Origin : China
Date Sample Received : Nov 03, 2020 & Nov 26, 2020
Testing Period : Nov 03, 2020 ~ Dec 01, 2020

Tests conducted:

As requested by the applicant, refer to attached page(s) for details.

To be continued



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Conclusion:

<u>Tested sample</u>	<u>Standard</u>	<u>Result</u>
Submitted sample sets	EN71-1:2014+A1:2018 for mechanical and physical properties	Pass
	EN71-2:2011+A1:2014 Flammability test	Pass
Tested component(s) of submitted sample sets	EN 71-3:2019 on migration of certain elements and (EU) 2019/1922 amending 2009/48/EC (applies from 20 May 2021) for Aluminium migration	Pass

Remark: All test results stated in the report are quoted from the test report number GZHH00384927 dated on Dec 02, 2020 since the sample(s) or material(s) of sample is(are) claimed to be identical.

Approved:




Zhou Rui Bin
Technical Assistant Manager

Approved:



Jimly Lin
Assistant Supervisor



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Tests Conducted

1 Physical and Mechanical Tests

As per European Standard on Safety of toys EN71-1:2014+A1:2018

The submitted samples were undergone the following abuse tests:

Test	Clause	Parameter
Torque test	8.3	0.34 Nm
Tension test	8.4.2.1	90N
Drop test	8.5	850 mm x 5 times
Impact test	8.7	1 kg
Compression test	8.8	110 N

Clause	Testing Items	Assessment
4	General requirements	
4.1	Material	P
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	P
4.8	Points and metallic wires	P
4.9	Protruding parts	NA
4.10	Parts moving against each other	P
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	P
4.15	Toys intended to bear the mass of a child	NA
4.16	Heavy immobile toys	NA
4.17	Projectile toys	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
4.21	Toys containing non-electrical heat source	NA
4.22	Small balls	NA
4.23	Magnets	NA
4.24	Yo-yo balls	NA
4.25	Toys attached to food	NA
4.26	Toy disguise costumes	NA
4.27	Flying toys	NA
5	Toys intended for children under 36 months	
5.1	General requirements	NA



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Clause	Testing Items	Assessment
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
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
5.15	Sledges with cords for pulling	NA
6	Packaging	P
7	Warnings, markings and instructions for use	
7.1	General	P
7.2	Toys not intended for children under 36 months	P/#
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	Projectile toys	NA
7.8	Imitation protective masks and helmets	P
7.9	Toy kites	NA
7.10	Roller skates, inlineskates and skateboards and certain other ride-on toys	NA
7.11	Toys intended to be attached to strung across a cradle, cot, or perambulator	NA
7.12	Liquid-filled teethingers	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
7.23	Toys intended to be attached to a cradle, cot or perambulator	NA



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Clause	Testing Items	Assessment
7.24	Sledges with cords for pulling	NA
7.25	Flying toys	NA
7.26	Improvised projectiles	NA

Remark: P = Pass NA = Not Applicable

= Age warning statement and indication of hazard was found on the packaging.

Remark: Additional information according to the Toy Safety Directives 2009/48/EC requirement. These information also appears as a note within the EN71 but are not standard requirements:

1. MarkingThe manufacturer's and importer's name, registered trade name or registered trade mark, the address and the CE-marking shall be indicated on the toy or, where that is not possible, on its packaging or in a document accompany the toy. In addition, manufacturers shall ensure that their toys bear a type, batch, serial or model number or other element allowing their identification, or where the size or nature of the toy does not allow it, that the required information is provided on the packaging or in a document accompanying the toy.

- Manufacturer's name was on the packaging.
- Manufacturer's address was on the packaging.
- Importer's name was missed.
- Importer's address was missed.
- Product identification code was missed.
- CE marking was on the packaging.

2 **Flammability Test**

As per European Standard on Safety of Toys EN71-2:2011+A1:2014

Clause	Testing Items	Assessment
4.1	General	P
4.2	Toys to be worn on the head	P/#
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

Remark: P = Pass NA = Not Applicable

= Since there is insufficient material to produce a test sample, the flammability test as specified in Clause 4.2.5 & 4.3 were found not applicable.



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3 19 Toxic Element Migration Test

(A) Test Result

As per EN 71-3:2019 and followed by Inductively Coupled Plasma Atomic Emission Spectrometry, Ion Chromatography with UV-VIS .

Category (III): Scraped-off toy material

Element	Result (mg/kg)		Reporting Limit (mg/kg)	Limit (mg/kg)
	Tested Component			
	(4)	(5)		
Aluminium (Al)	ND	ND	300	70000 / 28130▲
Antimony (Sb)	ND	ND	10	560
Arsenic (As)	ND	ND	10	47
Barium (Ba)	ND	ND	10	18750
Boron (B)	ND	ND	50	15000
Cadmium (Cd)	ND	ND	5	17
Chromium (III) (Cr III) #	ND	ND	10	460
Chromium (VI) (Cr VI)	ND	ND	0.025	0.053
Cobalt (Co)	ND	ND	10	130
Copper (Cu)	ND	10	10	7700
Lead (Pb)	ND	ND	10	23
Manganese (Mn)	ND	ND	10	15000
Mercury (Hg)	ND	ND	10	94
Nickel (Ni)	ND	ND	10	930
Selenium (Se)	ND	ND	10	460
Strontium (Sr)	ND	ND	100	56000
Tin (Sn)	ND	ND	2.5	180000
Organic tin **	ND	ND	5	12
Zinc (Zn)	366	ND	100	46000



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Element	Result (mg/kg)	Reporting Limit (mg/kg)	Limit (mg/kg)
	Tested Component		
	(1), (2), (3), (6)		
Aluminium (Al)	ND	300	70000 / 28130 [▲]
Antimony (Sb)	ND	10	560
Arsenic (As)	ND	10	47
Barium (Ba)	ND	10	18750
Boron (B)	ND	50	15000
Cadmium (Cd)	ND	5	17
Chromium (III) (Cr III) [#]	ND	10	460
Chromium (VI) (Cr VI)	ND	0.025	0.053
Cobalt (Co)	ND	10	130
Copper (Cu)	ND	10	7700
Lead (Pb)	ND	10	23
Manganese (Mn)	ND	10	15000
Mercury (Hg)	ND	10	94
Nickel (Ni)	ND	10	930
Selenium (Se)	ND	10	460
Strontium (Sr)	ND	100	56000
Tin (Sn)	ND	2.5	180000
Organic tin ^{**}	ND	5	12
Zinc (Zn)	ND	100	46000

Remark : mg/kg = milligram per kilogram

++ = Unless the test results were marked with "Δ", Organic tin contents were not directly determined and were derived from migration results of total tin.

- Organic tin test result was expressed as tributyl tin.

ND = Not detected (less than reporting limit)

▲ = The new Aluminium migration limit were quoted from Directive (EU) 2019/1922 amending Directive 2009/48/EC applicable from 20 May 2021.

= The reported value of migration of Chromium (III) = migration value of total Chromium – migration value of Chromium(VI).

Tested component(s):

- (1) Silver color metal (adjustable buckle).
- (2) Black plastic (body, buckle, adjustable buckle of mask).
- (3) Black soft plastic (nose tray of mask).
- (4) Black elastic band (tape of mask).
- (5) Black webbing (joint of mask).
- (6) Transparent black plastic (eyes of mask).

Remark: As requested by the applicant, toxic elements migration test was conducted only components listed in this report. Other components were not tested.



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(B) Categories of various toy materials

Category I: Dry, brittle, powder like or pliable

Solid toy material from which powder-like material is released during playing and semi-solid materials that may also leave residues on the hands during play. The material can be ingested. Contamination of the hands with the material may contribute to the oral exposure of the material. (e.g. the cores of colouring pencils, chalk, crayons, modelling clays and plaster).

Category II: Liquid or sticky

Fluid or viscous toy material, which can be ingested or to which dermal exposure may occur during playing. (e.g. liquid paints, finger paints, liquid ink in pens, glue sticks, slimes, bubble solution).

Category III: Scraped-off

Solid toy material with or without a coating, which can be ingested as a result of biting, tooth scraping, sucking or licking. (e.g. coatings, lacquers, plastics, paper, textiles, glass, ceramic, metallic, wooden, bone, leather and other materials).



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Intertek authenticates the photo on original report only

End of report

The statements of conformity reported have considered the decision rule agreed, namely that Intertek have taken account of measurement uncertainty as calculated by Intertek, and applied according to ILAC-G8/09:2019 (Non-binary acceptance based on guard band $w = U$) except designation from the customer, regulation or test specification.

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