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American National Standards Institute  
American Society for Testing and Materials  
British Standards Institute

Hong Kong Association for Testing, Inspection and Certification Limited  
Hong Kong Toys Council

**Test Report**

Number: HKGH02075334

Applicant: VASEN INTERNATIONAL LIMITED  
FLAT 909-911 9/F KWONG SANG HONG CTR  
151-153 HOI BUN RD  
KWUN TONG KLN  
HK

Date: Feb 07, 2017

Attn: ZEN WONG

Submitted samples said to be	:	
Item Name	:	<b>Junior Diving Fins</b>
	:	<b>(1) Blue</b>
	:	<b>(2) Yellow</b>
Style No.	:	<b>F-6867</b>
Quantity	:	Five pairs each
Labelled Age Group	:	Not specified
Packaging Provided	:	No
Additional Material and Wet Paint Provided	:	No
Buyer	:	TESCO
Country of Origin	:	China



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For and on behalf of :  
Intertek Testing Services HK Ltd.

Angel Y.F. Cheung  
Vice President





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**Conclusion:**

The submitted sample was tested under the following requirements requested by the applicant, subject to the information stated in the remark and attached page(s) for details :

<u>Requirement</u>	<u>Result</u>
(1) EN71-1: 2014 - Mechanical and Physical Properties	Pass
(2) EN71-2 : 2011 + A1 : 2014 - Flammability Test	Pass
(3) EN71-3 : 2013 + A1:2014 - Migration of certain elements	Pass
(4) REACH Regulation (EC) No.1907/2006 , Annex XVII Item 23 & amendment No. 2016/217 - Cadmium content requirement	Pass
(5) REACH Regulation (EC) no. 1907/2006, Annex XVII Items 51 & 52 & amendment no. 552/2009 - Phthalates content	Pass
(6) Tesco's requirement - Phthalate content	See details enclosed
(7) BS EN 16804: 2015 Diving equipment - Diving open heel fins - Requirements and test methods (Partial tests)	See details enclosed

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(1) Mechanical and Physical Test

Test Standard : European Standard on Safety of Toys EN71-1:2014

Age group for testing : For Ages Over 3 Years

<u>Clause</u>	<u>Requirement</u>	<u>Assessment</u>
4	General requirements	
4.1	Material cleanliness	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	NA
4.11	Mouth actuated toys and other toys intended to be put into mouth	NA
4.12	Balloons	NA
4.13	Cords of toy kites and other flying toys	NA
4.14	Enclosures	NA
4.15	Toys intended to bear the mass of a child	NA
4.16	Heavy immobile toys	NA
4.17	Projectiles	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
5	Toys intended for children under 36 months	
5.1	General requirements for toys intended for children under 36 months	NA
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



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<u>Clause</u>	<u>Requirement</u>	<u>Assessment</u>
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
6	Packaging	NA
7	Warnings, markings and instructions for use	#1

Abbreviation : P = Pass NA = Not Applicable

Remark(s):

#1 = Clause 7 - The item examined is not a toy. Therefore, the warning and other requirements as specified in this clause do not apply.

Comment: The scope of the standard was not applicable to the submitted samples. Testing was conducted with reference to the test method and requirements as stated.

Date sample received : Jan 12, 2017  
Test Period : Jan 12, 2017 to Jan 13, 2017

(2) Flammability Test

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

<u>Clause</u>	<u>Requirement</u>	<u>Assessment</u>
4.1	General	P
4.2	Toys to be worn on the head	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

Abbreviation : P = Pass NA = Not Applicable

Comment: The scope of the standard was not applicable to the submitted samples. Testing was conducted with reference to the test method and requirements as stated.

Date sample received : Jan 12, 2017  
Test Period : Jan 12, 2017 to Jan 13, 2017

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(3) 19 Toxic Element Migration Test

Test Standard : EN71-3:2013 + A1:2014

Category (III): Scraped-off toy material:

	Result (mg/kg)			Limit (mg/kg)
	(2)	(3)	(4)	
Soluble Aluminium (Al)	<300	<300	<300	70000
Soluble Antimony (Sb)	<10	<10	<10	560
Soluble Arsenic (As)	<10	<10	<10	47
Soluble Barium (Ba)	<10	<10	<10	18750
Soluble Boron (B)	<50	<50	<50	15000
Soluble Cadmium (Cd)	<5	<5	<5	17
Soluble Chromium (III) (Cr III) ++	<10	<10	<10	460
Soluble Chromium (VI) (Cr VI) ++	<0.1	<0.1	<0.1	0.2
Soluble Cobalt (Co)	<10	<10	<10	130
Soluble Copper (Cu)	<10	<10	<10	7700
Soluble Lead (Pb)	<10	<10	<10	160
Soluble Manganese (Mn)	<10	<10	<10	15000
Soluble Mercury (Hg)	<10	<10	<10	94
Soluble Nickel (Ni)	<10	<10	<10	930
Soluble Selenium (Se)	<10	<10	<10	460
Soluble Strontium (Sr)	<100	<100	<100	56000
Soluble Tin (Sn)	<10	<10	<10	180000
Soluble Organic tin ++	<2.0	<2.0	<2.0	12
Soluble Zinc (Zn)	<100	<100	<100	46000

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	Result (mg/kg)		Limit (mg/kg)
	(5)	(6)	
Soluble Aluminium (Al)	<300	<300	70000
Soluble Antimony (Sb)	<10	<10	560
Soluble Arsenic (As)	<10	<10	47
Soluble Barium (Ba)	<10	<10	18750
Soluble Boron (B)	<50	<50	15000
Soluble Cadmium (Cd)	<5	<5	17
Soluble Chromium (III) (Cr III) ++	<10	<10	460
Soluble Chromium (VI) (Cr VI) ++	<0.1	<0.1	0.2
Soluble Cobalt (Co)	<10	<10	130
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Soluble Nickel (Ni)	<10	<10	930
Soluble Selenium (Se)	<10	<10	460
Soluble Strontium (Sr)	<100	<100	56000
Soluble Tin (Sn)	<10	<10	180000
Soluble Organic tin ++	<2.0	<2.0	12
Soluble Zinc (Zn)	<100	<100	46000

mg/kg = milligram per kilogram

++ : Unless the test results were marked with "^" or "Δ", Chromium (III) & Chromium (VI) and Organic tin contents were not directly determined and were derived from migration results of total chromium and tin respectively.

Organic tin test result was expressed as tributyl tin.

@ : Since the sample weight of the component was less than 10 mg, soluble heavy metal analysis was not applicable.

Tested Components:

- (1) @ White coating on plastic (code, logo).
- (2) Bright black plastic (strap).
- (3) Black plastic (buckle).
- (4) Dull black plastic (fins).
- (5) Blue plastic (fins).
- (6) Green plastic (fins).

Date sample received : Jan 12, 2017

Test Period : Jan 12, 2017 to Feb 04, 2017

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(4) Cadmium (Cd) Content

Test Method : Acid digestion method was used and total Cadmium content was determined by Inductively Coupled Argon Plasma Spectrometry.

Tested Component	Result in %, w/w	Limit in %, w/w
(1)	ND	0.1
(2/3/4)	ND	0.01
(5/6)	ND	0.01

ND : Not detected (< 0.0005%)

Tested Components:

- (1) White coating on plastic (code, logo).
- (2) Bright black plastic (strap).
- (3) Black plastic (buckle).
- (4) Dull black plastic (fins).
- (5) Blue plastic (fins).
- (6) Green plastic (fins).

Date sample received : Jan 12, 2017  
Test Period : Jan 12, 2017 to Feb 04, 2017

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**Test Report**

Number: HKGH02075334

(5) Phthalate Content Test

Test Method : EN14372, by Gas Chromatographic-Mass Spectrometric (GC-MS) analysis.

Six Phthalate content:

Compounds	Result (%, w/w)			Limit (%, w/w)
	(1)	(2/3/4)	(5/6)	
Dibutyl phthalate (DBP)	<0.01	<0.01	<0.01	--
Diethyl hexyl phthalate (DEHP)	<0.01	<0.01	<0.01	--
Benzyl butyl phthalate (BBP)	<0.01	<0.01	<0.01	--
Sum of DBP,DEHP & BBP	<0.01	<0.01	<0.01	0.1
Diisononyl phthalate (DINP)	<0.01	<0.01	<0.01	--
Di-n-octyl phthalate (DnOP)	<0.01	<0.01	<0.01	--
Diisodecyl phthalate (DIDP)	<0.01	<0.01	<0.01	--
Sum of DINP,DnOP & DIDP	<0.01	<0.01	<0.01	0.1

The above limit was quoted according to Annex XVII Items 51 & 52 of the REACH Regulation (EC) no. 1907/2006 & amendment no. 552/2009 for phthalate content in toys and childcare articles.

Tested Components:

- (1) White coating on plastic (code, logo).
- (2) Bright black plastic (strap).
- (3) Black plastic (buckle).
- (4) Dull black plastic (fins).
- (5) Blue plastic (fins).
- (6) Green plastic (fins).

Date sample received : Jan 12, 2017

Test Period : Jan 12, 2017 to Feb 06, 2017

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Number: HKGH02075334

(6) Phthalate Content

Test Method : Solvent extraction and followed by Gas Chromatographic-Mass Spectrometric (GC-MS) analysis.

Compounds	Result (% w/w)			Limit (% w/w)
	(1)	(2/3/4)	(5/6)	
Di-n-hexyl phthalate (DNHP)	<0.01	<0.01	<0.01	0.1
1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear	<0.01	<0.01	<0.01	0.1
Bis (2-methoxyethyl) phthalate (BMEP)	<0.01	<0.01	<0.01	0.1
Diisobutyl phthalate (DIBP)	<0.01	<0.01	<0.01	0.1
Dipentyl phthalate (DPP)	<0.01	<0.01	<0.01	0.1
Diisopentylphthalate (DIPP)	<0.01	<0.01	<0.01	0.1
N-pentyl-isopentylphthalate (PIPP)	<0.01	<0.01	<0.01	0.1
1,2-Benzenedicarboxylic acid, dipentylester, branched and linear	<0.01	<0.01	<0.01	0.1
1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich (DIHP)	<0.01	<0.01	<0.01	0.1
1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters (DHNU)	<0.01	<0.01	<0.01	0.1
1,2-benzenedicarboxylic acid, di-C6-10-alkyl esters; 1,2-benzenedicarboxylic acid, mixed decyl and hexyl and octyl diesters with ≥ 0.3% of dihexyl phthalate (EC No. 201-559-5)	<0.01	<0.01	<0.01	0.1

Tested Components:

- (1) White coating on plastic (code, logo).
- (2) Bright black plastic (strap).
- (3) Black plastic (buckle).
- (4) Dull black plastic (fins).
- (5) Blue plastic (fins).
- (6) Green plastic (fins).

Date sample received : Jan 12, 2017  
Test Period : Jan 12, 2017 to Feb 06, 2017

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**Test Report**

Number: HKGH02075334

(7) Safety Requirements For Diving open heel fins

Test Standard : BS EN 16804: 2015 Diving equipment - Diving open heel fins - Requirements and test methods

Number of samples tested : Three (3) pairs per style; Total: Two (2) styles.

Clause	Requirement	Assessment
3.1	General	#1
3.2	Surface in contact with the foot	P
3.3	Heel band	
	Don and remove	#1
	Slippage	P
	Attachment	P
	Liner deformation	P
5	Marking	P
6	Information supplied by the manufacturer	#2

Abbreviation : P = Pass; NA = Not Applicable; NT = Not tested

Remarks:

#1- Practical performance test according to clause 4.3 was not conducted as per applicant's request, therefore, no conclusion could be drawn for this clause.

#2- The information shall be attached to the fins or given in or on the packaging in the official language(s) of the country of destination. The information supplied by the manufacturer shall contain all information necessary for trained and qualified persons on instruction how to use and select the fins.

Date sample received : Jan 12, 2017

Testing period : Jan 12, 2017 to Feb 01, 2017

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End of report

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