

Test Report

Report No.: CTT180760064EN

Date: Jul. 04, 2018

Page 1 of 15

Applicant: XIAMEN BENSHINE IMP.&EXP. CO.,LTD

Address: UNIT 2403,NO.13,JINGZHONG ROAD,HULI DISTRICT,XIAMEN,CHINA

The following merchandise was (were) submitted and identified by client as:

Sample Name: All Materials of shoulder strap

P/O No.: 21340-25635-E/PO18B1007

Country of Origin: China

Exported to: Germany

End Use: Karcher

Category: Adult

Sample Received Date: Jun. 29, 2018

Completed Date: Jul. 03, 2018

Test Result(s): Please refer to next page(s).

Test Requested and Conclusion(s): Please refer to next page(s).

Signed for and on Behalf of CTT

Joey Lin

Joey Lin/ Technical engineer
Consumer Testing Technology Co.,



Signed for and on Behalf of CTT

yurong zhong

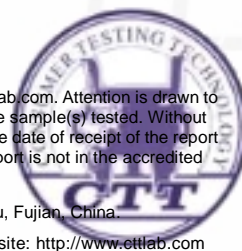
Yurong Zhong / Technical Director
Consumer Testing Technology Co., Ltd.

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Consumer Testing Technology
Co.,Ltd.

NO.4, Chongmin street Qingmeng Economic and Technological Industrial Development Park ,Quanzhou, Fujian, China

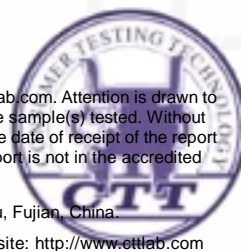
Tel: 0595-6809 9099 Fax: 0595-6829 6699 E-mail: enquiry@cttlab.com Hotline:400 6789 666 Website: <http://www.cttlab.com>



Test Requested and Conclusion(s):

No.	Test Sample	Standard and Requirement	Conclusion(s)
1	Submitted sample	Annex XVII items 63 of the REACH Regulation (EC) No 1907/2006 & amended (EU) No 836/2012 - Lead content	PASS
2	Submitted sample	Annex XVII items 23 of the REACH Regulation (EC) No 1907/2006 & COMMISSION REGULATION (EU) No 494/2011 - Total cadmium (Cd)	PASS
3	Submitted sample	Annex XVII items 51 & 52 of the REACH Regulation (EC) No 1907/2006 & amended (EC) No. 552/2009 - Phthalates	PASS
4	Submitted sample	Annex XVII items 43 of the REACH Regulation (EC) No 1907/2006 & amended (EC) No. 552/2009 - Azo colorants and Azo dyes	PASS
5	Submitted sample	Annex XVII items 50 of the REACH Regulation (EC) No 1907/2006 Class II - Polycyclic Aromatic Hydrocarbons (PAHs) content	PASS
6	Submitted sample	Annex XVII items 8 of the REACH Regulation (EC) No 1907/2006 -PBBs	PASS
7	Submitted sample	Annex XVII items 45 of the REACH Regulation (EC) No 1907/2006 -Octabromodiphenylether	PASS
8	Submitted sample	Annex XVII items 67 of the REACH Regulation (EC) No 1907/2006 -Decabromodiphenylether	PASS
9	Submitted sample	Client's requirements on Colour fastness to perspiration	PASS

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Test Result(s):REACH - Lead content ⁿ

Method: With reference to IEC 62321-5: 2013, analyzed by Atomic Absorption Spectroscopy (AAS) or Inductively Coupled Plasma Optical Emission Spectroscopy (ICP-OES).

Material No.	Limit (mg/kg)	Result (mg/kg)	Conclusion
1+2-1+3	500	N.D.	PASS
2-2	500	N.D.	PASS

- Note:**
1. mg/kg = milligram per kilogram (ppm).
 2. N.D. = Not Detected (< RL).
 3. RL (Reporting Limit) = 10 mg/kg.
 4. "+" = The test result is obtained from composite testing on materials linked with "+" mark, it is possible that individual test result can be higher if the materials are tested separately. This had been taken in account in the conclusion of this report.

Total cadmium (Cd) ⁿ

Method: With reference to IEC 62321-5: 2013 analyzed by Atomic Absorption Spectroscopy (AAS).

Material No.	Limit (mg/kg)	Result (mg/kg)	Conclusion
1+2-1+3	100	N.D.	PASS
2-2	100	N.D.	PASS

- Note:**
1. mg/kg = milligram per kilogram (ppm).
 2. N.D. = Not Detected (<RL).
 3. RL (Reporting Limit) = 2 mg/kg.
 4. "+" = The test result is obtained from composite testing on materials linked with "+" mark, it is possible that individual test result can be higher if the materials are tested separately. This had been taken in account in the conclusion of this report.

Test Result(s):

Phthalates

Method: With reference to EN ISO 14389:2014/COR:2014, was analyzed by Gas Chromatograph-Mass Spectrometer (GC-MS).

Substances	DBP	BBP	DEHP	SUM	DNOP	DIDP	DINP	SUM	Conclusion
CAS No.	84-74-2	85-68-7	117-81-7	--	117-84-0	26761-40-0 /68515-49-1	28553-12-0 /68515-48-0	--	
Limit (mg/kg)	--	--	--	1000	--	--	--	1000	
RL (mg/kg)	50	50	50	--	50	100	100	--	
Material No.	Result (mg/kg)								PASS
1+2-1+3	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	

- Note:**
1. mg/kg = milligram per kilogram (ppm).
 2. N.D. = Not Detected (< RL).
 3. RL = Reporting Limit.
 4. The DBP, DEHP and BBP shall not be used as substances or in mixtures, in concentrations greater than 1000 mg/kg by weight of the plasticised material, in toys and childcare articles.
 5. The DINP, DIDP and DNOP shall not be used as substances or in mixtures, in concentrations greater than 1000 mg/kg by weight of the plasticised material, in toys and childcare articles which can be placed in the mouth by children.
 6. "+" = The test result is obtained from composite testing on materials linked with "+" mark, it is possible that individual test result can be higher if the materials are tested separately. This had been taken in account in the conclusion of this report.

Test Result(s):

Azocolourants and Azodyes

Method: With reference to EN ISO 14362-1:2017 and EN ISO 14362-3:2017, Analyzed by Gas Chromatograph-Mass Spectrometry (GC-MS)/ High Performance Liquid Chromatograph (HPLC-DAD).

No.	Substances Name	CAS No.	Limit (mg/kg)	Result (mg/kg)	
				No.(4+5)	No.6
1	biphenyl-4-ylamine/ 4-aminodiphenyl/ xenylamine	92-67-1	30	N.D.	N.D.
2	benzidine	92-87-5	30	N.D.	N.D.
3	4-chloro-o-toluidine	95-69-2	30	N.D.	N.D.
4	2-naphthylamine	91-59-8	30	N.D.	N.D.
5Δ	o-aminoazotoluene/ 4-o-tolylazo-o-toluidine/ 4-amino-2', 3-dimethylazobenzene	97-56-3	30	N.D.	N.D.
6Δ	2-amino-4-nitrotoluene/ 5-nitro-o-toluidine	99-55-8	30	N.D.	N.D.
7	4-chloroaniline	106-47-8	30	N.D.	N.D.
8	4-methoxy-m-phenylenediamine	615-05-4	30	N.D.	N.D.
9	4,4'-methylenedianiline/ 4,4'-diaminodiphenylmethane	101-77-9	30	N.D.	N.D.
10	3,3'-dichlorobenzidine/ 3,3'-dichlorobiphenyl-4,4'-ylenediamine	91-94-1	30	N.D.	N.D.
11	3,3'-dimethoxybenzidine/ o-dianisidine	119-90-4	30	N.D.	N.D.
12	3,3'-dimethylbenzidine/ 4,4'-bi-o-toluidine	119-93-7	30	N.D.	N.D.
13	4,4'-methylenedi-o-toluidine	838-88-0	30	N.D.	N.D.
14	6-methoxy-m-toluidine/ p-cresidine	120-71-8	30	N.D.	N.D.
15	4,4'-methylene-bis-(2-chloroaniline)/ 2,2'-dichloro-4,4'-methylene-dianiline	101-14-4	30	N.D.	N.D.
16	4,4'-oxydianiline	101-80-4	30	N.D.	N.D.
17	4,4'-thiodianiline	139-65-1	30	N.D.	N.D.
18	o-toluidine/ 2-aminotoluene	95-53-4	30	N.D.	N.D.
19	4-methyl-m-phenylenediamine/ 2,4-toluylendiamine	95-80-7	30	N.D.	N.D.
20	2,4,5-trimethylaniline	137-17-7	30	N.D.	N.D.
21	o-anisidine / 2-methoxyaniline	90-04-0	30	N.D.	N.D.
22◇	4-aminoazobenzene	60-09-3	30	N.D.	N.D.
Conclusion				PASS	PASS

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- Note:**
1. mg/kg = milligram per kilogram (ppm).
 2. N.D. = Not Detected (< RL).
 3. RL (Reporting Limit) = 5 mg/kg.
 4. "Δ" = The CAS No. 97-56-3 (No.5) and 99-55-8 (No.6) are further reduced to CAS No.95-53-4 (No.18) and 95-80-7(No.19).
 5. "◇" = Azo colorants that are able to form 4-aminoazobenzene(No.22), generate under the condition of this method aniline and 1, 4-phenylenediamine, therefore, the method of EN ISO 14362-3:2017 was employed to verify the 4-aminoazobenzene.
 6. "+" = The test result is obtained from composite testing on materials linked with "+" mark, it is possible that individual test result can be higher if the materials are tested separately. This had been taken in account in the conclusion of this report.

Test Result(s):

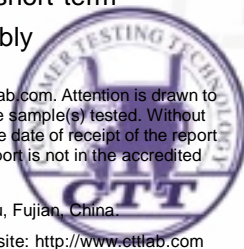
Polycyclic Aromatic Hydrocarbons (PAHs)

Method: With reference to AfPS GS 2014:01 PAK, analyzed by Gas Chromatograph-Mass Spectrometry (GC-MS).

Test Substance	CAS No.	Limit (mg/kg)			Result (mg/kg)
		I	II	III	No.(1+2-1+3)
Benzo[a]anthracene(BaA)	56-55-3	--	1	0.5	N.D.
Chrysene (CHR)	218-01-9	--	1	0.5	N.D.
Benzo[b]fluoranthene(BbFA)	205-99-2	--	1	0.5	N.D.
Benzo[k]fluoranthene(BkFA)	207-08-9	--	1	0.5	N.D.
Benzo[a]pyrene(BaP)	50-32-8	1	1	0.5	N.D.
Dibenzo[a,h]anthracene(DBAhA)	53-70-3	--	1	0.5	N.D.
Benzo[e]pyrene(BeP)	192-97-2	--	1	0.5	N.D.
Benzo[j]fluoranthene(BjFA)	205-82-3	--	1	0.5	N.D.
SUM		10	--	--	N.D.
Conclusion					PASS

- Note:**
1. mg/kg = milligram per kilogram (ppm).
 2. N.D = Not Detected (<RL).
 3. RL (Reporting Limit) = 0.20 mg/kg.
 4. "--" = Not Regulated.
 5. Product Class:
 - I = Extender oils.
 - II = Rubber or plastic components that come into direct as well as prolonged or short-term repetitive contact with the human skin or the oral cavity, under normal or reasonably

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foreseeable conditions of use.

III = Toys, including activity toys, and childcare articles, if any of their rubber or plastic components that come into direct as well as prolonged or short-term repetitive contact with the human skin or the oral cavity, under normal or reasonably foreseeable conditions of use.

6. "+" = The test result is obtained from composite testing on materials linked with "+" mark, it is possible that individual test result can be higher if the materials are tested separately. This had been taken in account in the conclusion of this report.

Test Result(s):

PBBs ⁿ

Method: With reference to IEC 62321-6: 2015, analyzed by Gas Chromatograph-Mass Spectrometry (GC-MS).

Material No.	Test Item(s)	Result (mg/kg)		Limit (mg/kg)	Conclusion
1+2-1+3	PBBs	--	SUM	N.D.	PASS
	Monobromobiphenyl	N.D.	N.D.	--	--
	Dibromobiphenyl	N.D.		--	--
	Tribromobiphenyl	N.D.		--	--
	Tetrabromobiphenyl	N.D.		--	--
	Pentabromobiphenyl	N.D.		--	--
	Hexabromobiphenyl	N.D.		--	--
	Heptabromobiphenyl	N.D.		--	--
	Octabromobiphenyl	N.D.		--	--
	Nonabromobiphenyl	N.D.		--	--
	Decabromobiphenyl	N.D.		--	--

- Note:**
1. mg/kg = milligram per kilogram (ppm).
 2. N.D. = Not Detected (< RL).
 3. RL (Reporting Limit) = 5 mg/kg.
 4. "--" = Not Regulated.
 5. "+" = The test result is obtained from composite testing on materials linked with "+" mark, it is possible that individual test result can be higher if the materials are tested separately. This had been taken in account in the conclusion of this report.

Test Result(s):

PBBs ⁿ

Method: With reference to IEC 62321-6: 2015, analyzed by Gas Chromatograph-Mass Spectrometry (GC-MS).

Material No.	Test Item(s)	Result (mg/kg)		Limit (mg/kg)	Conclusion
4+5	PBBs	--	SUM	N.D.	PASS
	Monobromobiphenyl	N.D.	N.D.	--	--
	Dibromobiphenyl	N.D.		--	--
	Tribromobiphenyl	N.D.		--	--
	Tetrabromobiphenyl	N.D.		--	--
	Pentabromobiphenyl	N.D.		--	--
	Hexabromobiphenyl	N.D.		--	--
	Heptabromobiphenyl	N.D.		--	--
	Octabromobiphenyl	N.D.		--	--
	Nonabromobiphenyl	N.D.		--	--
	Decabromobiphenyl	N.D.		--	--

- Note:**
1. mg/kg = milligram per kilogram (ppm).
 2. N.D. = Not Detected (< RL).
 3. RL (Reporting Limit) = 5 mg/kg.
 4. "--" = Not Regulated.
 5. "+" = The test result is obtained from composite testing on materials linked with "+" mark, it is possible that individual test result can be higher if the materials are tested separately. This had been taken in account in the conclusion of this report.

Test Result(s):

PBBs ⁿ

Method: With reference to IEC 62321-6: 2015, analyzed by Gas Chromatograph-Mass Spectrometry (GC-MS).

Material No.	Test Item(s)	Result (mg/kg)		Limit (mg/kg)	Conclusion
6	PBBs	--	SUM	N.D.	PASS
	Monobromobiphenyl	N.D.	N.D.	--	--
	Dibromobiphenyl	N.D.		--	--
	Tribromobiphenyl	N.D.		--	--
	Tetrabromobiphenyl	N.D.		--	--
	Pentabromobiphenyl	N.D.		--	--
	Hexabromobiphenyl	N.D.		--	--
	Heptabromobiphenyl	N.D.		--	--
	Octabromobiphenyl	N.D.		--	--
	Nonabromobiphenyl	N.D.		--	--
	Decabromobiphenyl	N.D.		--	--

- Note:**
1. mg/kg = milligram per kilogram (ppm).
 2. N.D. = Not Detected (< RL).
 3. RL (Reporting Limit) = 5 mg/kg.
 4. "--" = Not Regulated.

Test Result(s):Octabromodiphenyletherⁿ

Method: With reference to IEC 62321-6: 2015, analyzed by Gas Chromatograph-Mass Spectrometry (GC-MS).

Material No.	Limit (mg/kg)	Result (mg/kg)	Conclusion
1+2-1+3	1000	N.D.	PASS
4+5	1000	N.D.	PASS
6	1000	N.D.	PASS

- Note:**
1. mg/kg = milligram per kilogram (ppm).
 2. N.D. = Not Detected (<RL).
 3. RL (Reporting Limit) = 5 mg/kg.
 4. "+" = The test result is obtained from composite testing on materials linked with "+" mark, it is possible that individual test result can be higher if the materials are tested separately. This had been taken in account in the conclusion of this report.

Decabromodiphenyletherⁿ

Method: With reference to IEC 62321-6: 2015, analyzed by Gas Chromatograph-Mass Spectrometry (GC-MS).

Material No.	Limit (mg/kg)	Result (mg/kg)	Conclusion
1+2-1+3	1000	N.D.	PASS
4+5	1000	N.D.	PASS
6	1000	N.D.	PASS

- Note:**
1. mg/kg = milligram per kilogram (ppm).
 2. N.D. = Not Detected (<RL).
 3. RL (Reporting Limit) = 5 mg/kg.
 4. "+" = The test result is obtained from composite testing on materials linked with "+" mark, it is possible that individual test result can be higher if the materials are tested separately. This had been taken in account in the conclusion of this report.

Test Result(s):

Colour fastness to perspiration ⁿ

Method: ISO 105-E04:2013

Material No.	Description	Test Item		Client's Requirement	Results (Grade)	Conclusion
5	Black fabric with black plastic(body)	Acid	Colour change	> 3-4	4-5	PASS
			Colour stain on	--		
			Acetate	> 3-4	4-5	
			Cotton	> 3-4	4-5	
			Polyamide	> 3-4	4-5	
			Polyester	> 3-4	4-5	
			Acrylic	> 3-4	4-5	
			Wool	> 3-4	4-5	
		Alkaline	Colour change	> 3-4	4-5	
			Colour stain on	--		
			Acetate	> 3-4	4-5	
			Cotton	> 3-4	4-5	
			Polyamide	> 3-4	4-5	
			Polyester	> 3-4	4-5	
			Acrylic	> 3-4	4-5	
			Wool	> 3-4	4-5	

Note:

Explanation of Colour fastness Results

- Grade 5 Negligible or no change or staining
- Grade 4 Slightly changed or stained
- Grade 3 Noticeably changed or stained
- Grade 2 Considerably changed or stained
- Grade 1 Much changed or heavily stained

Test Result(s):

Colour fastness to perspiration ⁿ

Method: ISO 105-E04:2013

Material No.	Description	Test Item		Client's Requirement	Results (Grade)	Conclusion
6	Black fibre (braid)	Acid	Colour change	> 3-4	4-5	PASS
			Colour stain on	--		
			Acetate	> 3-4	4-5	
			Cotton	> 3-4	4-5	
			Polyamide	> 3-4	4-5	
			Polyester	> 3-4	4-5	
			Acrylic	> 3-4	4-5	
			Wool	> 3-4	4-5	
		Alkaline	Colour change	> 3-4	4-5	
			Colour stain on	--		
			Acetate	> 3-4	4-5	
			Cotton	> 3-4	4-5	
			Polyamide	> 3-4	4-5	
			Polyester	> 3-4	4-5	
			Acrylic	> 3-4	4-5	
			Wool	> 3-4	4-5	

Note:

Explanation of Colour fastness Results

- Grade 5 Negligible or no change or staining
- Grade 4 Slightly changed or stained
- Grade 3 Noticeably changed or stained
- Grade 2 Considerably changed or stained
- Grade 1 Much changed or heavily stained

Test Report

Report No.: CTT180760064EN

Date: Jul. 04, 2018

Page 13 of 15

Test Material List

The following materials apply only to the samples submitted for chemical testing

Material No.	Description	Location
1	Black plastic	Buckle frame
2-1	Black plastic	"?" buckle/connection ring
2-2	Silvery metal	Activity buckle
3	White foam	Body
4	Black mesh fabric	Body
5	Black fabric with black plastic	Body
6	Black fibre	Braid

Remark: The data of this report are referred to data of CTT180660652EN.

Photo of Sample:



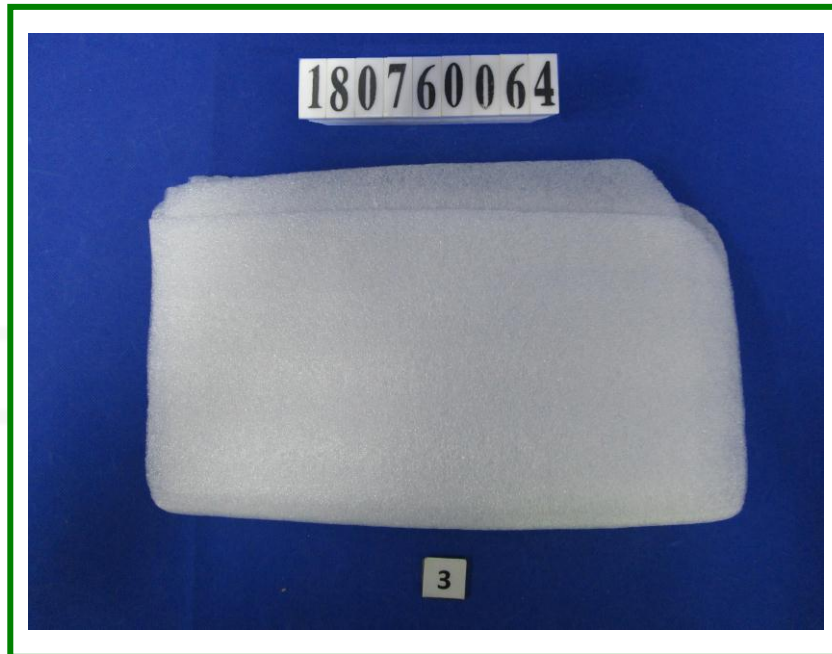
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Consumer Testing Technology Co.,Ltd.

NO.4, Chongmin street Qingmeng Economic and Technological Industrial Development Park ,Quanzhou, Fujian, China.
Tel: 0595-6809 9099 Fax: 0595-6829 6699 E-mail: enquiry@cttlab.com Hotline:400 6789 666 Website: <http://www.cttlab.com>

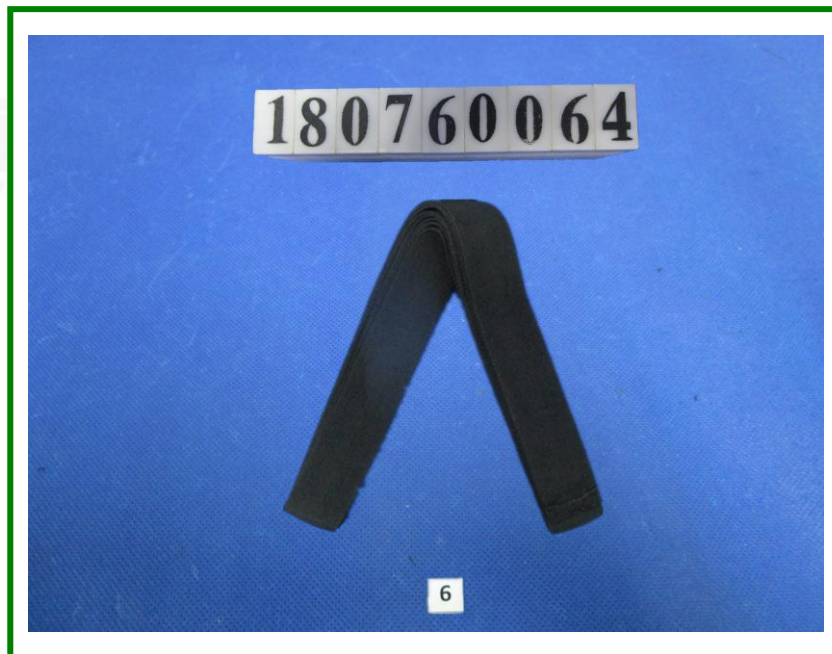


Photo of Sample:



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Photo of Sample:



End of Report

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