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Xiamen U-Fly Bag Co., Ltd. 2/F No.71 Tongan Park, Tongan Industrial Zone, Xiamen, China.

Report on the submitted samples said to be:

Sample Name : Cooler bags

: FRIO LINE Style/Item No.

Product Application Scope : Men & Women

Fiber composition : 100% Polyester

TEXTURE POLYESTER 210D/PU BACKING Sample material

Country of Origin **CHINA**

Country of Destination : ITALY

Buyer : GIO STYLE s.p.a

Xiamen U-Fly Bag Co., Ltd. Supplier

Sample/EUT Status good condition

Sample Receiving Date : November 1, 2019

Testing Period From November 1, 2019 to December 9, 2019

Result Please refer to next page(s).

Signed for and on behalf of BACL

Checked by:

Jenifer Yu **Technical Supervisor** Approved by:

Fedor Zhang Laboratory Manager

Bay Area Compliance Laboratories Corp. (Fujian)
The 4th Floor, No.65 Meixi RD, Siming Industrial Zone, Tong'an Area, Xiamen, China TEL: +86-592-3200111 FAX: +86-592-5188378



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Sun	nmary of Test Result (as the requirement of Cli	**************************************	******
TES	ST REQUEST		CONCLUSION
1	Azo-amines Content		Pass
2	Phthalates Content (Tested parts are required p	partially by client)	Pass
3	PFOA Content		Pass
4	PVC Content		Pass
5	Regulation(EC) No.1935/2004 of the Europea 10/2011 and its amendment directives on mate contact with food		
	5.1 Overall Migration		Pass
	5.2 Specific migration of heavy metal		Pass
6	Seam Strength		Pass
7	Capacity		Data
Pas	s = Meet the Requirement of Client.		



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Result:

Tested part(s): (only for test Item 1-4)

- Black plastic(adjustable buckle①②③/square buckle①②)
- 2. Blue plastic(zipper teeth) 123
- 3. Blue fabric(zipper fabric)①②③
- 4. LT. blue fabric(body①/side body①/back of body ③/shoulder strap③/top of body reinforcement③)
- Red fabric(back of body①/top of body reinforcement①/body②/top of body②③/bottom of body②③)
- Green fabric(top of body①/bottom of body①/side body②/back of body②/top of body reinforcement ②/body③)
- Blue webbing(strap①②③/body handle③/body reinforcement①②)
- 8. Red mesh fabric(side extension) ①
- 9. Red elastic(side extension binding)①

- 10. Blue mesh fabric(side extension)2
- 11. Blue elastic(side extension binding)②
- 12. Green mesh fabric(side extension)③
- 13. Green elastic (side extension binding) ③
- 14. Green plastic(top of body binding)①
- 15. LT. blue plastic(top of body binding)2
- 16. Red plastic(top of body binding)③
- 17. White plastic(lining 123/lining binding 123/lining reinforcement 123)
- 18. White non woven(body interlining ① ② 3/pad interlining ① ② 3/shoulder strap interlining ③)
- 19. White Pearl foam(body interlining 123/pad interlining 123/shoulder strap interlining 3)
- 20. Grey paper board(pad interlining) 123
- 21. Blue coating(body logo) 123
- 22. White plastic film(15c PEVA)

Remark: ①Style1: handbag(blue) ②Style2: handbag(red)

③Style3: backpack

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1. Azo Colorants Content

<u>Test method:</u> With reference to ISO 14362-1:2017(for textile) or ISO 17234-1:2015(for leather), Analysis was performed by Gas Chromatographic-Mass Spectrometer (GC-MS) and High Performance Liquid Chromatography with Diode Array Detector (HPLC-DAD).

Item	Unit	MDL		Result		Client's Limit
nem	Onit	WIDL	3+4	5+6	7+8+9	Chem & Limit
Azo Colorants content	mg/kg	5	N.D.	N.D.	N.D.	Each 30
Conclusion	1	1	Pass	Pass	Pass	1

Itom	l lmit	MDI	Res	Client's Limit	
Item	Unit	MDL	10+12+13	11	Client's Limit
Azo Colorants content	mg/kg	5	N.D.	N.D.	Each 30
Conclusion	1	1	Pass	Pass	1

Note:

- N.D. = Not Detected or less than MDL
- MDL = Method Detection Limit
- mg/kg = ppm
- "+" = Mixed, The admixture of specimen is tested as a whole(part) which according to the applicant's request, the result of report as average value because of the whole specimen is regarded as constituting from the homogeneous material. If the testing of specimen may have the obvious difference, and the result may exceed the number in this report. The applicant will undertake all differences and risk.
- *: The ISO 14362-1:2017 & ISO 17234-1:2015 method(s) will enable further cleavage of 4-aminoazobenzene to non-forbidden amines: aniline or 1, 4-phenylenediamine. If the test result for 4-aminoazobenzene (CAS No. 60-09-3) is considered as "Not Detected" since both aniline and / or 1,4-phenylenediamine is not found by mentioned test method. Otherwise the test method(s) of ISO 14362-3: 2017, ISO 17234-2:2011 is(are) employed to verify the presence of 4-aminoazobenzene.
- The list of aromatic amines in Azo colorants is summarized in table of Appendix I.

-	Photo appendix II is included.

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2. Phthalates Content (Tested parts are required partially by client)

Test method: With reference to ISO/TS 16181:2011, by solvent extraction and analysis was performed by Gas Chromatographic-Mass Spectrometer (GC-MS).

					Client's		
Item	Unit	MDL	1+2	9+13	11	14+15 +16	Limit
Dibutyl Phthalate (DBP)	%	0.003	N.D.	N.D.	N.D.	N.D.	
Benzylbutyl Phthalate (BBP)	%	0.003	N.D.	N.D.	N.D.	N.D.	
Bis-(2-ethylhexyl) Phthalate (DEHP)	%	0.003	N.D.	N.D.	N.D.	N.D.	
Diisobutyl Phthalate(DIBP)	%	0.003	N.D.	N.D.	N.D.	N.D.	
DBP + BBP + DEHP + DIBP	%	/	N.D.	N.D.	N.D.	N.D.	0.1
Di-n-octyl Phthalate (DNOP)	%	0.003	N.D.	N.D.	N.D.	N.D.	
Diisononyl Phthalate (DINP)	%	0.01	N.D.	N.D.	N.D.	N.D.	
Diisodecyl Phthalate (DIDP)	%	0.01	N.D.	N.D.	N.D.	N.D.	
DNOP + DINP +DIDP	%	1	N.D.	N.D.	N.D.	N.D.	0.1
Conclusion	1	1	Pass	Pass	Pass	Pass	1

Item	Unit	MDL			Results			Client's
item	Offic	WIDE	17	18	19	20	21	Limit
Dibutyl Phthalate (DBP)	%	0.003	N.D.	N.D.	N.D.	N.D.	N.D.	
Benzylbutyl Phthalate (BBP)	%	0.003	N.D.	N.D.	N.D.	N.D.	N.D.	
Bis-(2-ethylhexyl) Phthalate (DEHP)	%	0.003	N.D.	N.D.	N.D.	N.D.	N.D.	
Diisobutyl Phthalate(DIBP)	%	0.003	N.D.	N.D.	N.D.	N.D.	N.D.	
DBP + BBP + DEHP + DIBP	%	/	N.D.	N.D.	N.D.	N.D.	N.D.	0.1
Di-n-octyl Phthalate (DNOP)	%	0.003	N.D.	N.D.	N.D.	N.D.	N.D.	
Diisononyl Phthalate (DINP)	%	0.01	N.D.	N.D.	N.D.	N.D.	N.D.	
Diisodecyl Phthalate (DIDP)	%	0.01	N.D.	N.D.	N.D.	N.D.	N.D.	
DNOP + DINP +DIDP	%	/	N.D.	N.D.	N.D.	N.D.	N.D.	0.1
Conclusion	1	1	Pass	Pass	Pass	Pass	Pass	1



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Note:

- N.D. = Not Detected or less than MDL
- MDL = Method Detection Limit
- -0.1% = 1000 mg/kg, mg/kg = ppm
- "+" = Mixed, The admixture of specimen is tested as a whole(part) which according to the applicant's request, the result of report as average value because of the whole specimen is regarded as constituting from the homogeneous material. If the testing of specimen may have the obvious difference, and the result may exceed the number in this report. The applicant will undertake all differences and risk.

- Photo appendix II is included.

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3. PFOA Content

<u>Test method:</u> With reference to DIN CEN/TS 15968-2010, analysis was performed by Liquid Chromatographic-Mass Spectrometer (LC-MS).

Itama	CAS No.	Unit	MDI		Res	ults		Client's
Item	CAS NO.	Offic	MDL	3	4	5	6	Limit
PFOA Content	335-67-1	ppb	2.5	N.D.	N.D.	N.D.	N.D.	1000
Conclusion	1	1	1	Pass	Pass	Pass	Pass	/

Itom	CACNE	Unit	MDI		Res	ults		Client's
Item	CAS No.	Unit	MDL	7	8	9	10	Limit
PFOA Content	335-67-1	ppb	2.5	N.D.	N.D.	N.D.	N.D.	1000
Conclusion	1	1	1	Pass	Pass	Pass	Pass	1

Itama	CASNo	l lmit	MDL 11	Res	Results			
Item	CAS No.	Unit		11	12	13	18	Limit
PFOA Content	335-67-1	ppb	2.5	N.D.	N.D.	N.D.	N.D.	1000
Conclusion	1	1	1	Pass	Pass	Pass	Pass	1

Note:

- N.D. = Not Detected or less than MDL
- MDL = Method Detection Limit
- ug/kg = ppb
- Photo appendix II is included.



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4. PVC Content

Test method: With reference to DIN EN ISO 6401:2008-12, analysis was performed by FT-IR.

Itoms			Result			Client's Limit
Items	1	2	3	4	5	Chefit's Limit
PVC content	Negative	Negative	Negative	Negative	Negative	Negative
Conclusion	Pass	Pass	Pass	Pass	Pass	1

Homo		Client's Limit			
Items	6	7	8	9	Chent's Limit
PVC content	Negative	Negative	Negative	Negative	Negative
Conclusion	Pass	Pass	Pass	Pass	/

Itomo		Client's Limit			
Items	10	11	12	13	Chefft's Limit
PVC content	Negative	Negative	Negative	Negative	Negative
Conclusion	Pass	Pass	Pass	Pass	1

Items	$A \rightarrow$	Cliant's Limit			
	14	15	16	17	Client's Limit
PVC content	Negative	Negative	Negative	Negative	Negative
Conclusion	Pass	Pass	Pass	Pass	1



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Items		Client's Limit		
	18	19	20	Chefft's Liffit
PVC content	Negative	Negative	Negative	Negative
Conclusion	Pass	Pass	Pass	/

Note:

- Negative=Absence
- Positive=Presence
- Photo appendix II is included.



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5.1: Overall Migration

Test method: With reference to EN1186-1: 2002 for selection of conditions and test methods: EN1186-3: 2002 aqueous food simulates by total immersion methods;

Simulant Used	Unit	MDL	Results	Limit
Simulant Oseu		WIDE	22	Lillin
3% acetic acid at 40℃ 10 days	mg/dm²	3	N.D.	10
10% Ethanol at 40℃ for 10 days	mg/dm ²	3	N.D.	10
Isooctane at 20℃ for 2 days	mg/dm²	3	N.D.	10
95% Ethanol at 40℃ for 10 days	mg/dm²	3	N.D.	10
Conclusion	1	1	Pass	1

Note:

- N.D. = Not Detected or less than MDL
- MDL = Method Detection Limit
- Photo appendix is included.



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5.2: Specific migration of Heavy Metals

Test method: With reference to 3% acetic acid at 40°C for 24 hours, Analysis was performed by inductively coupled plasma optical emission spectrometer (ICP-OES)

	Unit	MDL	Results		
Item			22	Maximum permissible Limit	
Specific migration of Barium (Ba)	mg/kg	0.1	N.D.	1	
Specific migration of Ferrum(Fe)	mg/kg	1	N.D.	48	
Specific migration of Lithium (Li)	mg/kg	0.1	N.D.	0.6	
Specific migration of Zinc(Zn)	mg/kg	1	N.D.	5	
Specific migration of Copper(Cu)	mg/kg	1	N.D.	5	
Specific migration of Cobalt(Co)	mg/kg	0.05	N.D.	0.05	
Specific migration of Manganese(Mn)	mg/kg	0.05	N.D.	0.6	
Specific migration of Aluminum(Al)	mg/kg	0.05	N.D.	1	
Specific migration of nickel(Ni)	mg/kg	0.02	N.D.	0.02	
Specific migration of Tungsten(W)	mg/kg	0.05	N.D.	0.05	
Conclusion	1	1	Pass	1	

Test method: With reference to 10% ethanol at 40°C for 24 hours, Analysis was performed by inductively coupled plasma optical emission spectrometer (ICP-OES)

Item	Unit	MDL	Results	Maximum narmiacible Limit	
item	Onit	WIDL	22	Maximum permissible Limit	
Specific migration of Barium (Ba)	mg/kg	0.1	N.D.	1	
Specific migration of Ferrum(Fe)	mg/kg	1	N.D.	48	
Specific migration of Lithium (Li)	mg/kg	0.1	N.D.	0.6	
Specific migration of Zinc(Zn)	mg/kg	1	N.D.	5	
Specific migration of Copper(Cu)	mg/kg	1	N.D.	5	
Specific migration of Cobalt(Co)	mg/kg	0.05	N.D.	0.05	
Specific migration of Manganese(Mn)	mg/kg	0.05	N.D.	0.6	
Specific migration of Aluminum(Al)	mg/kg	0.05	N.D.	1	
Specific migration of nickel(Ni)	mg/kg	0.02	N.D.	0.02	
Specific migration of Tungsten(W)	mg/kg	0.05	N.D.	0.05	
Conclusion	1	1	Pass	1	



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Note:

N.D. = Not Detected or less than MDL

MDL = Method Detection Limit

Photo appendix is included.



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Result:							
Tested part(s): (only for test Item 6-7)							
(1) Blue handbag(2) Red handbag	(3) Backpack						
6. Seam Strength (ISO 13935-2:2014)		Client's Requirement					
	(1)						
Lining Seam(N)	101(material tear at the seam)						
Side Seam(N)	≥100 N						
Bottom Seam(N)	270 (breakage of sewing threads) 230 (fabric tear at the seam)						
Conclusion	Pass	1					
7. Capacity (UNI EN 12546-2:2001)		Client's Requiremen					
(1)	(2)						
19.6L	19.6L 19.8L						
Conclusion							
******	*************						

Bay Area Compliance Laboratories Corp. (Fujian)
The 4th Floor, No.65 Meixi RD, Siming Industrial Zone, Tong'an Area, Xiamen, China TEL: +86-592-3200111 FAX: +86-592-5188378



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Appendix I

List of Amines in Azo Dyestuff:

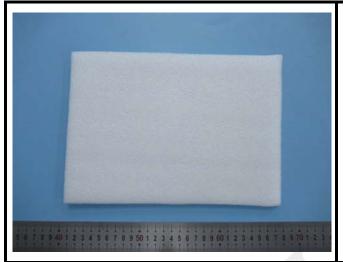
No.	Item	CAS No.	No.	Item	CAS No.		
1	4-aminobiphenyl/xenylamine/Biphenyl-4-yl amine	92-67-1	12	3,3'-dimethylbenzidine/4,4'-bi-o-Tolui dine	119-93-7		
2	Benzidine	92-87-5	13	3,3'-dimethyl-4,4'-diaminodiphenylme thane/ 4,4'-methylenedi- <i>o</i> -toluidine	838-88-0		
3	4-chloro-o-toluidine	95-69-2	14	p-cresidine/6-methoxy-m-toluidine	120-71-8		
4	2-naphthylamine	91-59-8	15	4,4'-methylene-bis-(2-chloro-aniline)/ 2,2'-dichloro-4,4'methylene-dianiline	101-14-4		
5	o-aminoazotoluene/4-o-tolylazo-o-toluidine /4-amino-2',3-dimethylazobenzene	97-56-3	16	4,4'-oxydianiline	101-80-4		
6	5-nitro-o-toluidine/2-amino-4-nitrotoluene	99-55-8	17	4,4'-thiodianiline	139-65-1		
7	p-chloraniline/4-chloroaniline	106-47-8	18	o-toluidine/2-aminotoluene	95-53-4		
8	2,4-diaminoanisole/ 4-methoxy-m-phenylenediamine	615-05-4	19	2,4-toluylendiamine/2,4-diaminotolue ne/4-methyl-m-phenylenediamine	95-80-7		
9	4,4'-diaminodiphenylmethane/ 4,4'-methylenedianiline	101-77-9	20	2,4,5-trimethylaniline	137-17-7		
10	3,3'-dichlorobenzidine/ 3,3'dichlorobiphenyl-4,4'-ylenediamine	91-94-1	21	o-anisidine/ 2-methoxyaniline	90-04-0		
11	3,3'-dimethoxybenzidine/o-dianisidine	119-90-4	22	4-aminoazobenzene*	60-09-3		
CAS	CAS No.=Chemical Abstracts Service Registry Number						



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Appendix II

Photograph of Sample (For Chemical Performance)



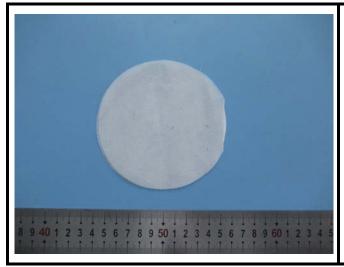


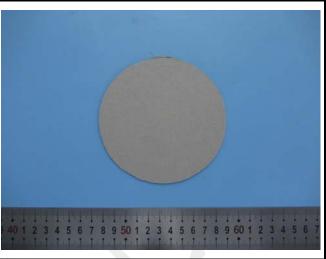






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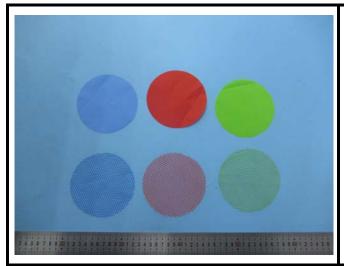


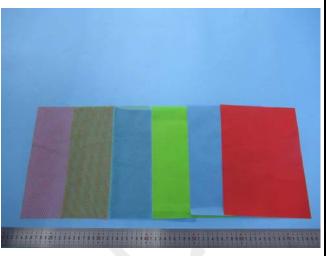


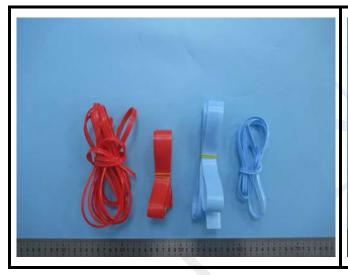


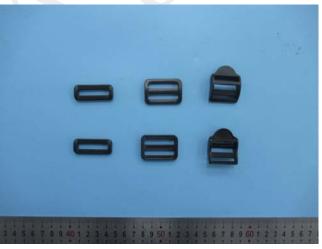


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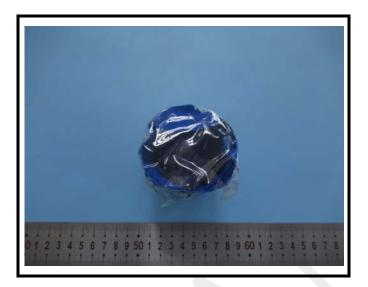








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Photograph of Sample (For Physical Performance)











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- 6. The extended uncertainty given in this report is obtained by combining the standard uncertainty times the coverage factor K with the 95% confidence interval.
- 7. The items used italic in the report was revised due to the applicant's requirements, The items used bold type in the report was revised due to typo.

*** End of Report ***

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