TEST REPORT

REPORT NUMBER : **TURT130166627_REVISED01**

APPLICANT NAME : **Pusula Çizgi Altı Basım San. ve Tic. Ltd.Şti.**

ADDRESS : İkitelli O.S.B. Eskoop San. Sit. A1 Blok No:15 İkitelliBaşakşehir İstanbul / TÜRKİYE
TEL:0212 671 83 03 - 02 FAX:0212 671 83 43

Attention : **Aksel Defineci (adefineci@pusulabasim.net)**

SAMPLE DESCRIPTION :

Sample 1 Three samples of blue bags with zipper & plastic part

Sample 2 Two samples of pink bags with zipper & plastic part

DATE IN : **19 November ,2013 (10:19)**

DATE OUT : **25 November ,2013 /29 November ,2013 /6 February ,2014**

BUYER : Not Given

FIBER COMPOSITION : Not Given

NOTE : In this revised 01 report, Applicant Name, Address and Attention were changed by the request of the applicant.
"This report replaces the report no TURT130166627 dated 29 November, 2013 and must be used instead of it."
Report no TUR130130166627 dated 29 November, 2013 is invalid.

PROVIDED CARE LABEL : Not Given

	SAMPLE	
TEST	1	2
Small Part Attachment Strength - Tension Test	P	P
Flame Retardants	P	P
Allergenic Disperse Dyestuff	P	P
Determination of Free and Hydrolised Formaldehyde Test (Water extraction method)	P	P
Release of Nickel for Coated Item	P	P
Determination of Cadmium Content	P	P
Detection of Amines Derived From Azocolourants and Azodyes	P	P

P = MEETS BUYER' S REQUIREMENT / F = DOES NOT MEET BUYER' S REQUIREMENT / NR = NO REQUIREMENT / SC=STILL CONTINUES / X=NOT PERFORMED / NA = NOT APPLICABLE / LS = LACK OF SAMPLE / NC = NO COMMENT / I = INCONCLUSIVE

The reported uncertainty is based on a standard uncertainty multiplied by a coverage factor k=2, providing a level of confidence of approximately 95%. The uncertainty evaluation has been carried out in accordance with ISO/IEC 17025 and UKAS accreditation requirements. Unless otherwise is specified, all Pass or Fail results are given without uncertainty considered. When uncertainty is taken into account, the result may be borderline. Borderline results need to be re-tested to determine their disposition up to customer's decision. Opinions and interpretations expressed herein are outside the scope of UKAS accreditation. Tests marked (*) in this test report are not included in the UKAS accreditation schedule for this laboratory.

Hasan ALTINGÜL
COORDINATOR

Sinan ÖNCEL / Customer Care Manager
Özlem CAVUMİRZA / Textile Laboratory Manager

2111

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Test Method	Results	Requirements

Small Part Attachment Strength - Tension Test

BS EN 71-1 Section 8.4 :A2-2013

		Result	
Sample 1			
	1	>90 N	90 N - 10 sec.
	2	>90 N	
	3	>90 N	
Sample 2			
	1	>90 N	90 N - 10 sec.
	2	>90 N	

Estimated Total Uncertainity=(±4,4%)

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Test Method	Results	Requirements

(*)Flame Retardants

In House Method Solvent Extraction followed by LC-MS-MS & GC/MS

	Cas No	Result	
Sample 1			
1-Blue fabric with blue print, blue zipper trim			
2-Sample 1 & 2: Blue zipper teeth & pink zipper teeth			
Flame Retardants	CAS - Nr	Result (ppm)	Requirement
Tris- (2,3 Dibromopropyl) phosphate (TRIS)	126-72-7	Not Detected	Not Detected
Polybrominatedbiphenyl (PBB)	59536-65-1	Not Detected	
Tris-aziridinyl phosphine oxide (TEPA)	545-55-1	Not Detected	
Pentabromo diphenyl ether (PentaBDE)	32534-81-9	Not Detected	
Octabromo diphenyl ether (OctaBDE)	32536-52-0	Not Detected	
Hexabromocyclododecane (HBCDD)	25637-99-4	Not Detected	
Decabromodiphenyl Ether (DecaBDE)	1163-19-5	Not Detected	
Tris(2-chloroethyl)phosphate (TCEP)	115-96-8	Not Detected	
Short-chained chlorinated paraffins (C10-C13)	85535-84-8	Not Detected	
*Eco Testing Standard for Textiles			

Sample 2			
Pink fabric with pink print, pink zipper trim			
Flame Retardants	CAS - Nr	Result (ppm)	Requirement
Tris- (2,3 Dibromopropyl) phosphate (TRIS)	126-72-7	Not Detected	Not Detected
Polybrominatedbiphenyl (PBB)	59536-65-1	Not Detected	
Tris-aziridinyl phosphine oxide (TEPA)	545-55-1	Not Detected	
Pentabromo diphenyl ether (PentaBDE)	32534-81-9	Not Detected	
Octabromo diphenyl ether (OctaBDE)	32536-52-0	Not Detected	
Hexabromocyclododecane (HBCDD)	25637-99-4	Not Detected	
Decabromodiphenyl Ether (DecaBDE)	1163-19-5	Not Detected	
Tris(2-chloroethyl)phosphate (TCEP)	115-96-8	Not Detected	
Short-chained chlorinated paraffins (C10-C13)	85535-84-8	Not Detected	
*Eco Testing Standard for Textiles			

ppm (part per million) =mg / kg
Detection Limit =5 ppm

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Test Method	Results	Requirements

Allergenic Disperse Dyestuff

IHTM AL.2.090 & AL.2.178 refer to DIN 54231:2005

By High Performance Liquid Chromatography&Mass Spectroscopy (LC-MS-MS) & HPLC - DAD Analysis

Sample 1

1-Blue fabric with blue print		
C.I. Disperse Blue 1	Not Detected	50 ppm
C.I. Disperse Blue 3	Not Detected	
C.I. Disperse Blue 7	Not Detected	
C.I. Disperse Blue 26	Not Detected	
C.I. Disperse Blue 35	Not Detected	
C.I. Disperse Blue 102	Not Detected	
C.I. Disperse Blue 106	Not Detected	
C.I. Disperse Blue 124	Not Detected	
C.I. Disperse Brown 1	Not Detected	
C.I. Disperse Orange 1	Not Detected	
C.I. Disperse Orange 3	Not Detected	
C.I. Disperse Orange 37/76	Not Detected	
C.I. Disperse Orange 149	Not Detected	
C.I. Disperse Red 1	Not Detected	
C.I. Disperse Red 11	Not Detected	
C.I. Disperse Red 17	Not Detected	
C.I. Disperse Yellow 1	Not Detected	
C.I. Disperse Yellow 3	Not Detected	
C.I. Disperse Yellow 9	Not Detected	
C.I. Disperse Yellow 23	Not Detected	
C.I. Disperse Yellow 39	Not Detected	
C.I. Disperse Yellow 49	Not Detected	
2-Sample 1 & 2: Transparent film		
C.I. Disperse Blue 1	Not Detected	50 ppm
C.I. Disperse Blue 3	Not Detected	
C.I. Disperse Blue 7	Not Detected	
C.I. Disperse Blue 26	Not Detected	
C.I. Disperse Blue 35	Not Detected	
C.I. Disperse Blue 102	Not Detected	
C.I. Disperse Blue 106	Not Detected	
C.I. Disperse Blue 124	Not Detected	
C.I. Disperse Brown 1	Not Detected	
C.I. Disperse Orange 1	Not Detected	
C.I. Disperse Orange 3	Not Detected	
C.I. Disperse Orange 37/76	Not Detected	
C.I. Disperse Orange 149	Not Detected	
C.I. Disperse Red 1	Not Detected	
C.I. Disperse Red 11	Not Detected	
C.I. Disperse Red 17	Not Detected	
C.I. Disperse Yellow 1	Not Detected	
C.I. Disperse Yellow 3	Not Detected	
C.I. Disperse Yellow 9	Not Detected	
C.I. Disperse Yellow 23	Not Detected	
C.I. Disperse Yellow 39	Not Detected	

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Test Method	Results	Requirements
C.I. Disperse Yellow 49	Not Detected	

ppm = **part per million (mg/kg)**
Detection Limit = **3 ppm**
< = **Less Than**

Estimated Total Uncertainity=(±2%)

Allergenic Disperse Dyestuff

IHTM AL.2.090 & AL.2.178 refer to DIN 54231:2005

By High Performance Liquid Chromatography&Mass Spectroscopy (LC-MS-MS) & HPLC - DAD Analysis

Sample 2

1-Pink fabric with blue print

C.I. Disperse Blue 1	Not Detected	50 ppm
C.I. Disperse Blue 3	Not Detected	
C.I. Disperse Blue 7	Not Detected	
C.I. Disperse Blue 26	Not Detected	
C.I. Disperse Blue 35	Not Detected	
C.I. Disperse Blue 102	Not Detected	
C.I. Disperse Blue 106	Not Detected	
C.I. Disperse Blue 124	Not Detected	
C.I. Disperse Brown 1	Not Detected	
C.I. Disperse Orange 1	Not Detected	
C.I. Disperse Orange 3	Not Detected	
C.I. Disperse Orange 37/76	Not Detected	
C.I. Disperse Orange 149	Not Detected	
C.I. Disperse Red 1	Not Detected	
C.I. Disperse Red 11	Not Detected	
C.I. Disperse Red 17	Not Detected	
C.I. Disperse Yellow 1	Not Detected	
C.I. Disperse Yellow 3	Not Detected	
C.I. Disperse Yellow 9	Not Detected	
C.I. Disperse Yellow 23	Not Detected	
C.I. Disperse Yellow 39	Not Detected	
C.I. Disperse Yellow 49	Not Detected	

ppm = **part per million (mg/kg)**
Detection Limit = **3 ppm**
< = **Less Than**

Estimated Total Uncertainity=(±2%)

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Test Method	Results	Requirements

Determination of Free and Hydrolised Formaldehyde Test (Water extraction method)

BS EN ISO 14184 - 1 :2011 Free and Hydrolized Formaldehyde by UV-VIS Analysis

	Result	
Sample 1		
1-Blue fabric with blue print 2-Sample 1&2: Transparent film *Eco Testing Standard for Textiles	<10 ppm	<75 ppm*
Sample 2		
Pink fabric with blue print	<10 ppm	<75 ppm*
*Eco Testing Standard for Textiles		

Estimated Total Uncertainity=(±6%)

Note :Sample was received unsealed

Release of Nickel for Coated Item

BS EN 12472 : 2005 + A1 : 2009 & BS EN 1811 : 2011 by ICP-MS Determination

	Tested Component	Trial	Sample Area (cm2)	Volume Of Test Solution (ml)	Result Δ (µg/cm2/week)
Sample 1					
	Pink pull tab and slider	1	3.5	3.5	<0.05
		2	3.5	3.5	<0.05
Sample 2					
	Blue pull tab and slider	1	3.5	3.5	0.09
		2	3.5	3.5	0.09
		3	3.5	3.5	0.08

Due to insufficient sample size, 3 parallel samples could not be tested.

Remark : Δ = According to EN 1811 : 2011, compliance decision was made based on the following rules.

Result	Interpretation
≤ 0.28	Compliance (Pass)
> 0.28 to < 0.88	No clear compliance decision (Inconclusive)
≥ 0.88	Non-compliance (Fail)

Estimated Total Uncertainity=(±8%)

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Test Method	Results	Requirements

Determination of Cadmium Content

BS EN 1122 : 2001 (Method B) and IHTM AL.2.004 microwave digestion and ICP -OES Determination

	Result	
Sample 1		
Blue print	<2 ppm	<100 ppm
Blue zipper teeth	<2 ppm	
Sample 1 & 2: Transparent film	<2 ppm	
Sample 2		
Blue print	<2 ppm	<100 ppm
Pink zipper teeth	<2 ppm	

ppm (part per million) **=mg / kg**
Detection Limit **=2 ppm**
< **=Less Than**
% **Percentage based on dry weight of sample**

REMARK **As per Cadmium Content Requirement in Annex XVII item 23 of the REACH Regulation (EC) No:1907/2006 (Formerly Known as Directive 91/338/EEC), Acid Digestion Method was used Total Cadmium Content was determined by ICP-OES**
Estimated Total Uncertainity=(±4%)

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Test Method	Results	Requirements

Detection of Amines Derived From Azocolourants and Azodyes

Test Method : BS EN 14362 - 1 : 2012 for Textile Material

By Gas Chromatographic - Mass Spectrometric (GC-MS) And High Performance Liquid Chromatographic (HPLC) Analysis.

Sample 1&2

A-Composite sample of pink, blue bag fabric, navy print (with extraction) <30 ppm

		RESULTS
FORBIDDEN AMINE	**CAS NO**	**A**
4-AMINOBIPHENYL	92-67-1	N
BENZIDINE	92-87-5	N
CHLORO-O-4-CHLOR-O-TOLUIDINE	95-69-2	N
2-NAPHTHYLAMINE	91-59-8	N
*O-AMINOAZOTOLUENE	97-56-3	N
*2-AMINO-4-NITROTOLUENE	99-55-8	N
P-CHLOROANILINE	106-47-8	N
2,4-DIAMINOANISOLE	615-05-4	N
4,4'-DIAMINOBIPHENYLMETHANE	101-77-9	N
3,3'-DICHLOROBENZIDINE	91-94-1	N
3,3'-DIMETHOXYBENZIDINE	119-90-4	N
3,3'-DIMETHYLBENZIDINE	119-93-7	N
3,3'-DIMETHYL-4,4' DIAMINOBIPHENYLMETHANE	838-88-0	N
P-CRESIDINE	120-71-8	N
4,4'-METHYLENE-BIS-(2 CHLOROANILINE)	101-14-4	N
4,4'-OXYDIANILINE	101-80-4	N
4,4'-THIODIANILINE	139-65-1	N
O-TOLUIDINE	95-53-4	N
2,4-TOLUYLENDIAMINE	95-80-7	N
2,4,5-TRIMETHYLANILINE	137-17-7	N
O-ANISIDINE	90-04-0	N
**P-AMINOAZOBENZENE	60-09-3	N
2,4 XYLIDINE	95-68-1	N
2,6 XYLIDINE	87-62-7	N

Note:

1)The amines o-amino-azotoluene and 2-amino-4-nitrotoluene are detected by its splitted product o-toluidine and 2,4- toluylenediamine.
2)Azo colorants that are able to form 4-aminoazobenzene, generate under the condition of this method aniline and 1,4- phenylendiamine . The presence of these colorants can not be reliably ascertained without additional information, e.g. chemical structure of the colorant used.
3)According to EN 14362-1:2012, separate test is suggested to ascertain the compliance for result of mixed test in the range between 5 ppm and 30 ppm.
4)Azocolourants Content Requirement In Annex XVII Item 43 Of The REACH Regulation (EC) NO. 1907/2006 & Amendment No. 552/2009 and 126/2013 (Formerly Known As Directive 2002/61/EC

ppm : part per million (mg/kg) Detection Limit: 5 ppm < = Less Than N: Not Detected NC : No Comment

Estimated Total Uncertainity=(±9%)

END OF TEST REPORT

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