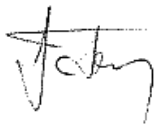


TEST REPORT

REPORT NUMBER : TURT130137677
APPLICANT NAME : Roza Tekstil Fermuar San. ve Tic. A.Ş.
ADDRESS : Keresteciler Sitesi Fatih Cad. Yüksek Sk. No:3/1Güngören İstanbul / TÜRKİYE
 TEL:0212 637 28 82FAX:0212 637 25 55
Attention : Rojen Baltas (planlama@rozazipper.com;expo@rozazipper.com)
BUYER LC WAIKIKI
SAMPLE DESCRIPTION : Thirty samples of black open end zippers
DATE IN : 18 September ,2013 (8:00)
RESUBMIT DATE : 19 September ,2013
DATE OUT : 24 September ,2013
MODEL/STYLE NO : T.10 SEPARÉ
FIBER COMPOSITION : Not Given
NOTE : Length Width Chain width Performance Code
 596 mm 33 mm 6.2 mm "C"
 Phthalate Content and Carcinogenous Dyestuff test was removed by the request of the applicant.
PROVIDED CARE LABEL : Not Given

TEST	SAMPLE
Screening Tests For Nickel Release	P
Slide Fasteners Single Stringer Slider Retention	P
Slide Fasteners Fastener Box	P
Slide Fasteners Lateral Strength - Open End Attachment	P
Slide Fasteners Puller Attachment	P
Slide Fasteners Reciprocating	P
Slide Fasteners Slider Locking	P
Slide Fasteners Top Stop	P
Heavy Metals Analysis	P
pH Determination of Aqueous Extract	P
Determination of Free and Hydrolised Formaldehyde Test (Water extraction method)	P
Detection of Amines Derived From Azocolourants and Azodyes	P



Erdem Çevrin
COORDINATOR



Sinan ÖNCEL
Customer Care Manager



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Intertek Test Hizmetleri A.S.
 Merkez Mahallesi Sanayi Cad. No.23 Altindag Plaza Yenibosna-34197 /ISTANBUL
 Phone : +90 212 496 46 46 Fax: +90 212 452 80 55

e-mail : intertekcg.turkiye@intertek.com

<http://www.intertek-turkey.com>



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TEST REPORT

REPORT : TURT130137677

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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 test results relate only to the items tested. The whole and/or the part of this test report shall not be reproduced and shall not be shared with third parties, nor to be used for PR activities without the written permission of INTERTEK Test Hizmetleri A.S.

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.



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Intertek Test Hizmetleri A.S.

Merkez Mahallesi Sanayi Cad. No.23 Altindag Plaza Yenibosna-34197 /ISTANBUL

Phone : +90 212 496 46 46 Fax: +90 212 452 80 55

e-mail : intertekcg.turkiye@intertek.com

<http://www.intertek-turkey.com>



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Test Method	Results	Requirements
(*Screening Tests For Nickel Release		
PD CR 12471 : 2002 (%0.8 Solution of Dimethyl Glyoxime in Alcohol & %10 Solution of Ammonia in Water).		
	Result	
Pull tab and slider	WAS NOT DETECTED	WAS NOT DETECTED
Open end	WAS NOT DETECTED	WAS NOT DETECTED
End box	WAS NOT DETECTED	WAS NOT DETECTED

(*Slide Fasteners Single Stringer Slider Retention

BS 3084 : 2006

Result

95.2 N

70 N

(*Slide Fasteners Fastener Box

BS 3084 : 2006

Result

128.9 N

90 N

(*Slide Fasteners Lateral Strength - Open End Attachment

BS 3084 : 2006

Result

151.6 N

90 N



Test Method	Results	Requirements
(*Slide Fasteners Puller Attachment		
BS 3084 : 2006	Result 513.0 N	200 N
(*Slide Fasteners Reciprocating		
BS 3084 : 2006	Result > 500 cycles	500 cycles
(*Slide Fasteners Slider Locking		
BS 3084 : 2006	Result 107.6 N	20 N
(*Slide Fasteners Top Stop		
BS 3084 : 2006	Result 131.9 N	90 N



Test Method	Results	Requirements
Heavy Metals Analysis		
INTERTEK IHTM AL.2.071 with refer to ISO 105 E-04		
1-Black zipper tape		
	Result	Requirement
Antimony (Sb)	0.3 ppm	30 ppm
Arsenic (As)	<0.1 ppm	1 ppm
Cadmium (Cd)	<0.1 ppm	0.1 ppm
Chromium (Cr)	<0.1 ppm	2 ppm
Chromium + 6 (Cr + 6)	-	Under Detection Limit
Cobalt (Co)	<0.1 ppm	4 ppm
Copper (Cu)	1.2 ppm	50 ppm
Lead (Pb)	<0.1 ppm	1 ppm
Mercury (Hg)	<0.01 ppm	0.02 ppm
Nickel (Ni)	<0.1 ppm	4 ppm
2)Black puller and slider		
	Result	Requirement
Antimony (Sb)	<0.1 ppm	30 ppm
Arsenic (As)	<0.1 ppm	1 ppm
Cadmium (Cd)	<0.1 ppm	0.1 ppm
Chromium (Cr)	<0.1 ppm	2 ppm
Chromium + 6 (Cr + 6)	Under Detection limit	Under Detection Limit
Cobalt (Co)	<0.1 ppm	4 ppm
Copper (Cu)	<0.1 ppm	50 ppm
Lead (Pb)	<0.1 ppm	1 ppm
Mercury (Hg)	<0.01 ppm	0.02 ppm
Nickel (Ni)	<0.1 ppm	4 ppm
3)Silver metal bottom stopper supper stopper		
	Result	Requirement
Antimony (Sb)	<0.1 ppm	30 ppm
Arsenic (As)	<0.1 ppm	1 ppm
Cadmium (Cd)	<0.1 ppm	0.1 ppm
Chromium (Cr)	<0.1 ppm	2 ppm
Chromium + 6 (Cr + 6)	Under Detection limit	Under Detection Limit
Cobalt (Co)	<0.1 ppm	4 ppm
Copper (Cu)	0.3 ppm	50 ppm
Lead (Pb)	<0.1 ppm	1 ppm
Mercury (Hg)	<0.01 ppm	0.02 ppm
Nickel (Ni)	0.4 ppm	4 ppm
4)Black zipper teeth		
	Result	Requirement
Antimony (Sb)	<0.1 ppm	30 ppm
Arsenic (As)	<0.1 ppm	1 ppm
Cadmium (Cd)	<0.1 ppm	0.1 ppm
Chromium (Cr)	<0.1 ppm	2 ppm
Chromium + 6 (Cr + 6)	-	Under Detection Limit
Cobalt (Co)	<0.1 ppm	4 ppm
Copper (Cu)	0.4 ppm	50 ppm
Lead (Pb)	<0.1 ppm	1 ppm
Mercury (Hg)	<0.01 ppm	0.02 ppm
Nickel (Ni)	<0.1 ppm	4 ppm



Test Method	Results	Requirements
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ppm : part per million (mg/kg)
< =Less Than

Estimated Total Uncertainty=(±8%)

pH Determination of Aqueous Extract

BS EN ISO 3071 : 2006 (Extraction with KCl solution)

<u>pH</u>	<u>Temperature of Test Solution</u>	
6.4	23.0 °C	4.0-7.5

Estimated Total Uncertainty=(±2%)

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

1)Black zipper tape

<10 ppm <75 ppm

ppm (part per million) =mg / kg
Detection Limit =10 ppm
< =Less Than

Estimated Total Uncertainty=(±6%)

Note :Sample was received unsealed



Test Method	Results	Requirements
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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.

1-Black zipper tape (with extraction)

<15 ppm

RESULTS

<u>FORBIDDEN AMINE</u>	<u>CAS NO</u>	<u>1</u>
4-AMINOBIIPHENYL	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'-DIAMINOBIIPHENYLMETHANE	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' DIAMINOBIIPHENYLMETHANE	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- phenylenediamine . 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 Uncertainty=(±9%)





END OF TEST REPORT