



Test
TS EN ISO/IEC 17025
AB-0716-T

AB-0716-T
TURT210063205
05-21

TEST REPORT

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REPORT NUMBER : TURT210063205
APPLICANT NAME : ÇAĞDAŞ FERMUAR - İSMAİL KAYA
ADDRESS : Çağlayan Mah. Park Cad. No:30 / AKağithane İstanbul / TURKEY
TEL:0212 246 64 51FAX:0212 232 47 57
Attention : İsmail Kaya (cagdasfermuar@hotmail.com)
SAMPLE DESCRIPTION : One sample of black zipper
DATE IN : 4 May ,2021 (08:29:00)
DATE OUT : 10 May ,2021
BUYER'S NAME : ZALANDO
MODEL/STYLE NO : ÇFS - SNS
TEST PACKAGE : ZIPPER

Erdem Çevrin
Customer Care Executive

Zeynep AKIN
Chemical Laboratory Manager

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	PART
Extractable Heavy Metals (Cd, Cr, Pb, As)	P
Allergenic and Carcinogenic Dyes	P
Determination of Alkylphenoethoxylates (APEO) for Plastics	P
Determination of Alkylphenoethoxylates (APEO) for Textile	P
Determination of Certain Aromatic Amines Derived from Azo Colorants	P
Determination of Free and Hydrolised Formaldehyde Test (Water extraction method)	P
Phthalate Content	P
Quinoline	P
Screening Tests For Nickel Release	P
Determination of Cadmium Content	P
Determination of Cadmium Content in Metals	P
Determination of Total Lead Content	P
Polycyclic Aromatic Hydrocarbons (PAHs) Analysis	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 / # = SEE RESULT / NF = NEEDS FURTHER TESTING / A = ABSENT / M = MARGINAL ACCEPT / SD = SEE DETAILS ENCLOSED / FS: FURTHER STEPS / SR = SEE RESULT

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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
Extractable Heavy Metals (Cd, Cr, Pb, As) BS EN 16711-2:2015 By Inductively Coupled Plasma-Mass Spectrofotometry (ICP-MS)		
1-Black zipper tape	CAS NO	RESULT
Arsenic (As)	7440-38-2	Not Detected
Cadmium (Cd)	7440-43-9	Not Detected
Lead (Pb)	7439-92-1	Not Detected
Chromium (Cr)	-	Not Detected
		1 ppm for each

Estimated Total Uncertainty=(±11%)

Extractable Heavy Metals (Cd, Cr, Pb, As) BS EN 16711-2:2015 By Inductively Coupled Plasma-Mass Spectrofotometry (ICP-MS)		
2-Black zipper teeth	CAS NO	RESULT
Arsenic (As)	7440-38-2	Not Detected
Cadmium (Cd)	7440-43-9	Not Detected
Lead (Pb)	7439-92-1	Not Detected
Chromium (Cr)	-	Not Detected
		1 ppm for each

Estimated Total Uncertainty=(±11%)

Test Method	Results	Requirements
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Allergenic and Carcinogenic Dyes

IHTM AL.2.090 refer to DIN 54231:2005

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

Test Method	Results	Requirements
1-Black zipper tape	Result	Requirement
Acid Red 26 (3761-53-3)	Not Detected	50 ppm
Acid Violet 49 (1694-09-3)	Not Detected	
Basic Blue 26 (2580-56-5)	Not Detected	
Basic Red 9 (569-61-9)	Not Detected	
Basic Violet 1 (8004-87-3)	Not Detected	
Basic Violet 3 (548-62-9)	Not Detected	
Basic Violet 14 (632-99-5)	Not Detected	
Blue colorant (118685-33-9)	Not Detected	
Direct Black 38 (1937-37-7)	Not Detected	
Direct Blue 6 (2602-46-2)	Not Detected	
Direct Red 28 (573-58-0)	Not Detected	
Direct Brown 95 (16071-86-6)	Not Detected	
Disperse Blue 1 (2475-45-8)	Not Detected	
Disperse Blue 3 (2475-46-9)	Not Detected	
Disperse Blue 7 (3179-90-6)	Not Detected	
Disperse Blue 26 (3860-63-7)	Not Detected	
Disperse Blue 35 (12222-75-2)	Not Detected	
Disperse Blue 102 (12222-97-8)	Not Detected	
Disperse Blue 106 (12223-01-7)	Not Detected	
Disperse Blue 124 (61951-51-7)	Not Detected	
Disperse Brown 1 (23355-64-8)	Not Detected	
Disperse Orange 1 (2581-69-3)	Not Detected	
Disperse Orange 3 (730-40-5)	Not Detected	
Disperse Orange 11 (82-28-0)	Not Detected	
Disperse Orange 37/76/59 (13301-61-6) (12223-33-5) (51811-42-8)	Not Detected	
Disperse Orange 149 (85316-74-9)	Not Detected	
Disperse Red 1 (2872-52-8)	Not Detected	
Disperse Red 151 (61968-47-6)	Not Detected	
Disperse Red 11 (2872-48-2)	Not Detected	
Disperse Red 17 (3179-89-3)	Not Detected	
Disperse Yellow 1 (119-15-3)	Not Detected	
Disperse Yellow 9 (6373-73-5)	Not Detected	
Disperse Yellow 3 (2832-40-8)	Not Detected	
Disperse Yellow 7 (6300-37-4)	Not Detected	
Disperse Yellow 23 (6250-23-3)	Not Detected	
Disperse Yellow 56 (54077-16-6)	Not Detected	
Disperse Yellow 39 (12236-29-2)	Not Detected	
Disperse Yellow 49 (54824-37-2)	Not Detected	
Solvent Yellow 2 (60-11-7)	Not Detected	
Solvent Yellow 14 (842-07-9)	Not Detected	

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
Basic Green 4 (569-64-2 2437-29-8 10309-95-2)	Not Detected	50 ppm
Solvent Blue 4 (6786-83-0)	Not Detected	
Solvent Violet 8 (561-41-1)	Not Detected	

ppm = part per million (mg/kg)
Detection Limit = 0.2 mg/L ; 3 mg/kg
< = Less Than

Estimated Total Uncertainty=(±10%)

Determination of Alkylphenoethoxylates (APEO) for Plastics

INTERTEK IHTM AL.2.037

Determination of APEO by liquid Chromotography-Mass Spectrometry (LC-MS-MS) Analysis

Alkylphenols

Nonylphenol (NP) Not Detected 100 ppm
Octylphenol (OP) Not Detected

Alkylphenol Ethoxylates

Nonylphenoethoxylates (NPEO) Not Detected 100 ppm
Octylphenoethoxylates (OPEO) Not Detected

ppm = mg/kg
Detection Limit = 1 ppm
ND = not detected

Requirement = 1000 ppm total
according to 2003/53/EC

ppm=mg/kg
Detection Limit: 1 ppm

Estimated Total Uncertainty=(±8%)

Test Method	Results	Requirements
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Determination of Alkylphenoethoxylates (APEO) for Textile

BS EN ISO 18254-1:2016

Determination of APEO by Liquid Chromotography-Mass Spectrometry (LC-MS-MS) Analysis

Alkylphenols

Nonylphenol (NP)	Not Detected	100 ppm
Octylphenol (OP)	Not Detected	

Alkylphenol Ethoxylates

Nonylphenoethoxylates (NPEO)	Not Detected	100 ppm
Octylphenoethoxylates (OPEO)	Not Detected	100 ppm

ppm = mg/kg

Detection Limit = 1 ppm

Estimated Total Uncertainty=(±10%)

Test Method	Results	Requirements
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Determination of Certain Aromatic Amines Derived from Azo Colorants

EN ISO 14362-1:2017

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

1-Black zipper tape (with extraction)

<30 ppm

RESULTS

FORBIDDEN AMINE	CAS NO	1
4-AMINOBIHENYL	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'-DIAMINOBIHENYLMETHANE	101-77-9	N
3,3'-DICHLOBENZIDINE	91-94-1	N
3,3'-DIMETHOXYBENZIDINE	119-90-4	N
3,3'-DIMETHYLBENZIDINE	119-93-7	N
3,3'-DIMETHYL-4,4' DIAMINOBIHENYLMETHANE	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-TOLUENEDIAMINE	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- toluenediamine.
- 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 ISO 14362-1:2017, 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
- 5) According to the official method ISO 14362-1:2017, if 4-Aminodiphenyl or 2-Naphthylamine or 2,4-Diaminoanisole is found exceeding requirement, the use of forbidden Azo colourants cannot be ascertained without additional information e.g. The chemical structure of the colourant used.

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

Estimated Total Uncertainty=(Textile: ± 13% ; Polyester: ± 13%)

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

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

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1-Black zipper tape	6 ppm	<75 ppm
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ppm (part per million) =mg / kg
Detection Limit =5 ppm
< =Less Than

Estimated Total Uncertainty=(±6%)

Note :Sample was received unsealed

Test Method	Results	Requirements
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Phthalate Content

ISO 14389 : 2014 according to REACH Regulation

Method By Gas Chromatography - Mass Spectrometry (GC-MS) Analysis

	<u>RESULT (ppm)</u>	<u>CAS NO</u>	<u>Requirement</u>
1-Black zipper tape			
Diisobutylphthalate (DIBP)	Not Detected	84-69-5	Legal & RSL Limit: Σ = 1000 mg/kg
Dibutylphthalate (DBP)	Not Detected	84-74-2	
Benzylbutylphthalate (BBP)	Not Detected	85-68-7	
Bis-(2-ethylhexyl)phthalate (DEHP)	Not Detected	117-81-7	
Di-n-octylphthalate (DNOP)	Not Detected	117-84-0	
Diisononylphthalate (DINP)	Not Detected	28553-12-0 / 68515-48-1	
Diisodecylphthalate (DIDP)	Not Detected	26761-40-0 / 68515-49-1	
Bis2-methoxyethyl)phthalate (DMEP)	Not Detected	117-82-8	
Di-n-hexyl-phthalate (DNHP)	Not Detected	84-75-3	
Diisopentylphthalate (DIPP)	Not Detected	605-50-5	
Dipentylphthalate (DPP)	Not Detected	131-18-0	
1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich1 (DIHP)	Not Detected	71888-89-6	
Sum of Phthalates	Not Detected		

REMARK = The Limit of 0.1% by weight was quoted according to Annex XVII Items 51&52 of the REACH Regulation (EC) No.1907/2006 (Formerly known as Directive 2005/84/EC) for Phthalate Content
 < = Less Than
 Detection Limit = 20 ppm

Estimated Total Uncertainty=(±11%)

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Test Method	Results	Requirements
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Quinoline

INTERTEK IHTM AL.2.462 based on DIN 54231:2005 by LC-MS Determination

1-Black zipper tape
Quinoline (91-22-5)

Not Detected

50 ppm

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

Estimated Total Uncertainty=(Textile: $\pm 16\%$, Textile dye: $\pm 17\%$)

(*)Screening Tests For Nickel Release

PD CR 12471 : 2002

Slider

WAS NOT DETECTED

WAS NOT DETECTED

Estimated Total Uncertainty=(Textile: $\pm 16\%$, Textile dye: $\pm 17\%$)

Test Method	Results	Requirements
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Determination of Cadmium Content

BS EN 1122 : 2001 (Method B)

Determination by microwave digestion and ICP -OES

1-Black plastic zipper teeth <5 ppm 100 ppm

ppm (part per million) =mg / kg Detection Limit =5 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 Uncertainty=(±4%)

Determination of Cadmium Content in Metals

With reference to USEPA 3050B / USEPA 3051 /USEPA 3051A/ US EPA 3052 ,by acid digestion and determined by ICP-OES

	RESULT	DETECTION LIMIT	REQUIREMENT
1-Puller	Not Detected	2.5 ppm	100 ppm
2-Slider	Not Detected	2.5 ppm	
3-Connection Part	Not Detected	2.5 ppm	

< = less then ppm: parts per million (mg/kg)

Estimated Total Uncertainty=(±10%)

Test Method	Results	Requirements
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Determination of Total Lead Content

BS EN 16711-1:2015 Determination of metals using microwave digestion

By Inductively Coupled Plasma-Mass Spectrofotometry (ICP-MS)

	Result	Detection Limit	Requirement
1-Black plastic zipper teeth	Not Detected	0.25 ppm	Legal Limit: 500 ppm RSL Limit: 100 ppm
2-Puller	15 ppm	0.25 ppm	
2-Slider	13 ppm	0.25 ppm	
4-Connection part	Not Detected	0.25 ppm	

< = less than ppm: parts per million (mg/kg)

Estimated Total Uncertainty=(±8%)

Test Method	Results	Requirements
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Polycyclic Aromatic Hydrocarbons (PAHs) Analysis

INTERTEK IHTM AL.2.032 based on AfPS GS 2019:01

1-Black zipper teeth	Result	Requirement (ppm)
Naphthalene(91-20-3)	Not Detected	Legal Limit: -/RSL Limit: 10
Acenaphthylene(208-96-8)	Not Detected	Legal Limit: -/RSL Limit: 10
Acenaphthen(83-32-9)	Not Detected	
Fluorene(86-73-7)	Not Detected	
Phenanthrene(85-01-8)	Not Detected	
Anthracene(120-12-7)	Not Detected	
Fluoranthene(206-44-0)	Not Detected	
Pyrene(129-00-0)	Not Detected	
Benzo(a)anthracene(56-55-3)	Not Detected	Legal Limit: 1/RSL Limit: 1
Chrysene(218-01-9)	Not Detected	
Benzo(b)fluoranthene + (205-99-2 +)	Not Detected	
Benzo(j)fluoranthene(205-82-3)	Not Detected	
Benzo(k)fluoranthene(207-08-9)	Not Detected	
Benzo(e)pyrene(192-97-2)	Not Detected	
Benzo(a)pyrene(50-32-8)	Not Detected	
Indeno(1,2,3-cd)pyrene(193-39-5)	Not Detected	Legal Limit: -/RSL Limit: Sum: 10 (zu 2-8)
Dibenzo(a,h)anthracene(53-70-3)	Not Detected	Legal Limit: 1/RSL Limit: 1
Benzo(ghi)perylene(191-24-2)	Not Detected	Legal Limit: -/RSL Limit: Sum: 10 (zu 2-8)
SUM PAH	Not Detected	

ppm (part per million) =mg / kg
Detection Limit = 0.1 ppm

Estimated Total Uncertainty=(±3%)

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END OF TEST REPORT