

## TEST REPORT

**REPORT NUMBER :** TURA170008560  
**APPLICANT NAME :** Daf Kimya İç ve Dış Tic.A.Ş.  
**ADDRESS :** Mahmutbey Mh. Taşocağı Yolu Cad. Ağaoğlu  
My Office Sit 212 No:3175 Bağcılar İstanbul / TURKEY  
TEL:0212 803 41 78

**Attention :** Yılmaz Çavdar ( [info@inknovators.com](mailto:info@inknovators.com) )

**SAMPLE DESCRIPTION :**


Sample 1 One sample of ECO PL CARMEN (17011701) - Print on white knitted fabric  
Sample 2 One sample of ECO PL CARMEN (17011701) - Liquid item

**DATE IN :** 17 January ,2017 ( 09:33:00)  
**DATE OUT :** 24 January ,2017  
**BUYER'S NAME :** INDITEX  
**TRADE NAME :** ECO PL CARMEN  
**LOT NO :** 17011701

TEST	SAMPLE	
	1	2
Detection of Amines Derived From Azocolourants and Azodyes	X	NR
Determination of Formaldehyde	NR	X
Total Phthalate Content	X	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

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Tuncay MADEN  
Customer Care Executive



Zeynep AKIN  
Chemical Laboratory Manager

**Intertek Test Hizmetleri A.S.**  
**Merkez Mahallesi Sanayi Cad. No.23 Altındag Plaza Yenibosna-34197 /ISTANBUL**  
**Phone : +90 212 496 46 46 Fax: +90 212 452 80 55**  
**e-mail : [intertekcg.turkiye@intertek.com](mailto:intertekcg.turkiye@intertek.com)**



Test Method	Results	Requirements
<b>Detection of Amines Derived From Azocolourants and Azodyes</b>		
BS EN 14362 - 1 : 2012 for Textile Material		
By Gas Chromatographic - Mass Spectrometric (GC-MS) And High Performance Liquid Chromatographic (HPLC) Analysis.		
Sample: 2		
1) ECO PL CARMEN (17011701) Liquid item (without extraction)		No Requirement

FORBIDDEN AMINE	CAS NO	RESULTS
		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'-DICHLOROBENZIDINE	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 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
- 5) According to the official method EN 14362-1:2012, 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=( ±9%)

**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>

Test Method	Results	Requirements
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**Determination of Formaldehyde**

INDITEX SOP: ITX-GB/T 2912.1/2012C

Sample 1

<2 ppm

No Requirement

ppm = part per million (mg/kg)  
 Detection Limit = 2 ppm  
 < = Less Than

Estimated Total Uncertainty=( ±6%)

Note :Sample was received unsealed

**Total Phthalate Content**

ISO 14389 : 2014 Method by Gas Chromotography - Mass Spectrometry (GC-MS) Analysis

Method By Gas Chromotography - Mass Spectrometry (GC-MS)

Analysis Sample 2

	CAS NO	RESULT (% , w/w)	REQUIREMENT
Dibutyl phthalate (DBP)	84-74-2	ND	Not Detected
Di(2-ethylhexyl) phthalate (DEHP)	117-81-7	ND	
Benzyl butyl phthalate (BBP)	85-68-7	ND	
Di-iso-nonyl phthalate (DINP)	28553-12-0	ND	
Di-n-octyl phthalate (DNOP)	117-84-0	ND	
Diisodecyl phthalate (DIDP)	26761-40-0	ND	

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

Detection Limit = DIDP, DINP : 100 ppm, Other Phthalates : 10 ppm  
 \* =EXCEEDED LIMIT ND : Not Detected

Estimated Total Uncertainty=( ±6%)

## Sample 1



## Sample 2



## END OF TEST REPORT ##