TEST REPORT

REPORT NUMBER : **TURA170008585**

APPLICANT NAME : **Daf Kimya İç ve Dış Tic.A.Ş.**

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Attention : Yılmaz Çavdar (info@inknovators.com)

SAMPLE DESCRIPTION :

Sample 1 One sample of ECO PL YELLOW (17012008) - Print on white fabric

Sample 2 One sample of ECO PL YELLOW (17012008) - Liquid item

DATE IN : **17 January ,2017 (09:38:00)**

DATE OUT : **19 January ,2017**

BUYER'S NAME : INDITEX

TRADE NAME : ECO PL YELLOW

LOT NO : 17012008

TEST	SAMPLE 1	SAMPLE 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

Tuncay MADEN
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Test Method	Results	Requirements

Detection of Amines Derived From Azocolourants and Azodyes

BS EN 14362 - 1 : 2012 for Textile Material

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

1) ECO PL YELLOW (17012008) Liquid item (without extraction) — No Requirement

		RESULTS
FORBIDDEN AMINE	**CAS NO**	**1**
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'-DİMETHYL-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-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- 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
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 Uncertainity=(±9%)

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Test Method	Results	Requirements

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 Uncertainity=(±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 **Detection Limit = DIDP, DINP : 100 ppm, Other Phthalates : 10 ppm**
< =Less Than * =EXCEEDED LIMIT ND : Not Detected

Estimated Total Uncertainity=(±6%)

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Sample 1

Sample 2

END OF TEST REPORT

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