



TEST REPORT

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REPORT NUMBER : TURA150017060
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Attention : Gürkan Kaya (gurkan.kaya@anadolukimya.com)
SAMPLE DESCRIPTION : One sample of FR 420 Fluorescent Orange (Batch No : 2014.12061-K03) Dye
DATE IN : 30 January ,2015 (15:43)
DATE OUT : 9 February ,2015

TEST	SAMPLE
APEO Test	1
Detection of Amines Derived From Azocolourants and Azodyes	P
Determination of Free and Hydrolised Formaldehyde Test (Water extraction method)	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

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150017060

Test Method	Results	Requirements
APEO Test		
INTERTEK IHTM AL.2.037		
<u>Alkylphenols</u>		
Nonylphenol (NP)	Not Detected	100 ppm
Octylphenol (OP)	Not Detected	
<u>Alkylphenol Ethoxylates</u>		
Nonylphenoethoxylates (NPEO)	Not Detected	100 ppm
Octylphenoethoxylates (OPEO)	Not Detected	

ppm = mg/kg
reporting limit = 2 ppm

Requirement = 100 ppm total according to 2003/53/EC

Estimated Total Uncertainty=(Plastic:±4% ; Textile:±3%)

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.

1)Fluorescent Orange dye (without extraction)

<20 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
*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-TOLUENDIAMINE	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

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

Estimated Total Uncertainty=(±9%)



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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

<5 ppm

<16 ppm

ppm (part per million) =mg / kg
Detection Limit =5 ppm
< =Less Than
Estimated Total Uncertainty=(±6%)

END OF TEST REPORT

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