

TEST REPORT

REPORT NUMBER : TURA150017063
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Attention : Gürkan Kaya (gurkan.kaya@anadolukimya.com)
SAMPLE DESCRIPTION : One sample of SP 204 Crosslinker Agent (Batch No : 2014.12125) Liquid
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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150017063

| 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)Crosslinker Agent 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 |
|-------------|---------|--------------|
|-------------|---------|--------------|

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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