

BRACHI TESTING SERVICES

BRACHI TESTING SERVICES
srl unipersonale

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Cod.Fis./P.IVA 02315520979

www.brachi.it

| | |
|---|---|
| RAPPORTO DI PROVA N°: Test Report N°: | 014535/21 |
| DITTA PRESENTATRICE: Company: | TESSILFIBRE SPA - VIA XXV APRILE, 33 - POGGIO A CAIANO (PO) |
| CAMPIONE: Sample: | Sample of textile fibers colour fuxia named STYLE FIBRA ACRILICA TOP TINTO 14404 COL FUCSIA. |
| CAMPIONAMENTO: Sampling: | Made by the customer |
| DATA RICEVIMENTO: Date of Receipt: | June 23 2021 |
| DATA ESECUZIONE PROVE: Test execution date: | From the date of receipt to the date of issue |
| OGGETTO: Subject: | Various analysis |

RISULTATI DI LABORATORIO

TEST RESULTS



I risultati enunciati si riferiscono unicamente ai campioni ricevuti e non alla partita che gli stessi rappresentano.

I campioni analizzati si conservano per tre mesi.

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IL DIRETTORE
P.I. Primo Brachi

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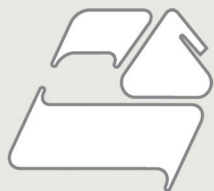
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DETERMINATION OF PHTHALATES (CPSC)

Process:

Test Method : EN ISO 14389:2014
Method : Dissolution with tetrahydrofurane (THF), precipitation of PVC residue with hexane and gascromatographic analysis with mass detector (GC-MS)

Correct mass (mc): 0,317g
Total mass (mt) : 0,317g
Not detectable : </ = LOD
Testing date : 30/06/2021

Results:

| PHTHALATES | CAS-Nr | LOD (mg/kg) | LOQ (mg/kg) | Results (mg/kg) | Results % |
|--|---|-------------|-------------|-----------------|-----------|
| Dibutyl phthalate (DBP) | 84-74-2 | 3 | 10 | N.D. | |
| Benzyl butyl phthalate (BBP) | 85-68-7 | 3 | 10 | N.D. | |
| Di (2 ethylexyl) phthalate (DEHP) | 117-81-7 | 3 | 10 | N.D. | |
| Sum of three (DBP+BBP+DEHP) | | -- | -- | N.D. | |
| Di iso buthyl phthalate (DIBP) | 84-69-5 | 3 | 10 | N.D. | |
| Din-n-octyl phthalate (DNOP) | 117-84-0 | 5 | 15 | N.D. | |
| Di iso nonyl phthalate (DINP) | 28553-12-0, 68515-48-0 | 15 | 50 | N.D. | |
| Di iso decyl phthalate (DIDP) | 26761-40-0 68515-49-1 | 15 | 50 | N.D. | |
| Sum of three (DnOP+Didp+DINP) | | -- | -- | N.D. | |
| Di-C6-8-branched alkylphthalates (DIHP) | 71888-89-6 | 15 | 50 | N.D. | |
| Di-pentylphthalate (n-,iso-or mixed) (DPP) | 131-18-0, 605-50-5, 776297-69-9 84777-06-0 | 3 | 10 | N.D. | |
| Di-(2-methoxyethyl)-phthalate (DMEP) | 117-82-8 | 15 | 50 | N.D. | |
| Di n-hexyl phthalate (DNHP) | 84-75-3 | 3 | 10 | -- | |
| Di-C7-11-branched alkylphthalates (DCHP) | 84-61-7 | 3 | 50 | -- | |
| Di-C7-11-branched alkyl phthalates (DHNUP) | 68515-42-4 | 15 | 50 | N.D. | |

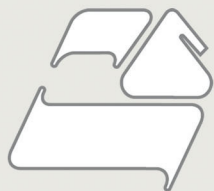
Legend: n.d.: not detectable

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TEXTILES: METHODS FOR DETERMINATION OF CERTAIN AROMATIC AMMINES DERIVED FROM AZO COLOURANTS. PART 1: DETECTION OF THE USE OF CERTAIN AZO COLORANTS ACCESSIBLE WITH OR WITHOUT EXTRACTING THE FIBERS

Procedure:

Reductive cleavage of the azo group with sodium dithionite in a citrate buffered aqueous solution (ph: 6; 70°C), spe purification, liquid-liquid extraction in terbutylmethylether phase. Gascromatographic quantitative determination with mass detector GC/MSDGC-MSMS/LC-MSMS .

Method : EN 14362-1: 2012

Color of sample : PINK

NOTE:

A) The use of certain azo colorants (Table 1) cannot be reliably ascertained without additional information, e.g. the chemical structure of the colorants used.

B) The product from which the sample was taken may have been coloured with colorants whose structures contain the amines but not azo bound.

C) The product from which the sample was taken may have been coloured with an azo colorant whose structure does not contain preformed 4-methoxy-m-phenylenediamine but 2-amino-4-nitroanisole. In the course of the analytical procedure the azo colorant will release 2-amino-4-nitroanisole which in turn will form 4-methoxy-m-phenylenediamine.

D) Care should be taken that detected aromatic amines originate from azo colorants and not for other materials such as polyurethane.

Results:

| AROMATIC AMINES | RESULTS (ppm) | CAS | NOTE | DETECTION LIMIT (ppm) |
|--|------------------|----------|------|--------------------------|
| 4-Aminobiphenyle | N.D. | 92-67-1 | A,B | 1 |
| Benidine | N.D. | 92-87-5 | - | 1 |
| 4-Chloro-O-Toluidine | N.D. | 95-69-2 | - | 1 |
| 2-Naphthylamine | N.D. | 91-59-8 | A,B | 1 |
| p-Chloroaniline | N.D. | 106-47-8 | - | 1 |
| 2,4-Diaminoanisole | N.D. | 615-05-4 | A,C | 1 |
| 4,4'-Diaminodiphenylmethane | N.D. | 101-77-9 | D | 1 |
| 3,3'-Dichlorobenzidine | N.D. | 91-94-1 | - | 1 |
| 3,3'-Dimethoxybenzidine | N.D. | 119-90-4 | - | 1 |
| 3,3'-Dimethylbenzidine | N.D. | 119-93-7 | - | 1 |
| 3,3'-Dimethyl-4,4' Diamino-diphenylmethane | N.D. | 838-88-0 | D | 1 |
| P-Cresidine | N.D. | 120-71-8 | - | 1 |
| 4,4'-Methylene-bis(2-Chloroaniline) | N.D. | 101-14-4 | - | 1 |
| 4,4' Oxydianiline | N.D. | 101-80-4 | - | 1 |
| 4,4' Thiodianiline | N.D. | 139-65-1 | - | 1 |
| o-Toluidine | N.D. | 95-53-4 | - | 1 |
| o-Aminoazotoluene (a) | N.D. | 97-56-3 | - | 1 |
| 5 Nitro-o-Toluidina (a) | N.D. | 99-55-8 | - | 1 |
| 2,4-Toluidendiamine | N.D. | 95-80-7 | - | 1 |
| 4 Aminoazobenzene (b) | N.D. | 60-09-3 | - | 1 |
| 2,4,5-Trimetilanolilina | N.D. | 137-17-7 | - | 1 |
| o-Anisidine | N.D. | 90-04-0 | - | 1 |
| * 2,4 -xylylidine | N.D. | 95-68-1 | - | 1 |
| * 2,6 -Xylylidine | N.D. | 87-62-7 | - | 1 |

| | CAS | DETECTED | NOT DETECTED |
|----------------------|----------|----------|--------------|
| Aniline | 62-53-3 | | X |
| 1,4- Phenylendiamine | 106-50-3 | | X |

Legenda : ND : not detectable

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Note: (a) the CAS number 97-56-3 and 99-55-8 are further reduced to CAS number 95-53-4 and 95-80-7.
(b) azo colorant that are able to form 4-aminoazobenzene, generate under the condition of this method aniline (CAS 62-53-3) and 1-4-phenylenediamine (CAS 106-50-3). Due to detection limits, only aniline may be detected. the presence of these colorants should be tested by EN 14362-3 (textiles)

DETERMINATION OF ETHOXYLATED ALKYLPHENOLS (APEOs)

Test Method :ISO 18254-1: 2016
Method : Extraction with methanol for 30 min at 40°C in ultrasonic bath and liquid chromatography determination with mass detector (LC/MS/MS)

Results:

| SUBSTANCES | CAS N. | RESULT (mg/kg) |
|-------------------------|--|----------------|
| Octylphenol Ethoxylated | OPEO (1) 51437-89-9 | ND |
| | OPEO(2) 51437-90-2 | |
| | OPEO (3-16) 9002-93-1, 9036-19-5, 68987-90-6 | |
| | | |
| Nonylphenol Ethoxylated | NPEO (1) 104-35-8 | ND |
| | NPEO(2) 20427-84-3 | |
| | NPEO (3-18) 68412-54-4, 9016-45-9, 26027-38-3, 37205-87-1, 127087-87-0 | |
| | | |

Detection limit (LOD) : 0,3 mg/kg
Quantification limit (LOQ) : 0,4 mg/kg
NOTE: n.d.: not detectable (<LOD)

* DETERMINATION OF ALKYLPHENOLS (APs)

Test Method : Internal method
Method : Extraction with methanol for 30 min at 40°C in ultrasonic bath and gaschromatographyc determination with mass detector (GC/MS) GC-MSMS

Results:

| SUBSTANCES | CAS N. | RESULT (mg/kg) |
|------------------------------------|------------|----------------|
| Octyl phenols (as Isomers mixture) | 27193-28-8 | N.D. |
| | 140-66-9 | |
| | 1806-26-4 | |
| Nonylphenols (as Isomers mixture) | 25154-52-3 | N.D. |
| | 140-40-5 | |
| | 11066-49-2 | |
| | 84852-15-3 | |

Detection limit (LOD) : 0,2 mg/kg
Quantification limit (LOQ) : 0,4 mg/kg
NOTE: n.d.: not detectable (<LOD)

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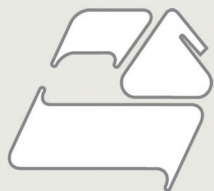
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*DETERMINATION OF PERFLUORINATED COMPOUND

Process:

Test Method : Based on CEN/TS 15968: 2010
solvent extraction, LC-MS-MS/ GC -MSMS analysis

Results:

| ----- | CAS N. | LOD mg/kg | RESULT mg/kg |
|---|-------------------------|--------------|-----------------|
| Perfluorbutansulfonic acid (PFBS) | 29420-49-3/ 375-73-5 | 0,1 | n.d. |
| Perfluorohexane sulfonic acid (PFHxS) | 3871-99-6/ 355-46-4 | 0,1 | n.d. |
| Perfluoro 1-heptanesulphonic acid (PFHpS) | 375-92-8/ 60270-55-5 | 0,1 | n.d. |
| Perfluorobutanoic acid (PFBA) | 375-22-4 | 0,1 | n.d. |
| Perfluoropentanoic acid (PFPeA) | 2706-90-3 | 0,1 | n.d. |
| Perfluoro n-hexanoic acid (PFHxA) | 307-24-4 | 0,1 | n.d. |
| Perfluoro n-heptanoic acid (PFHpA) | 375-85-9 | 0,1 | n.d. |
| 7H-Perfluoroheptanoic acid (HPFHpA) | 1546-95-8 | 0,1 | n.d. |
| 2H,2H – perfluorodecanoic acid (HHPFDA) | 27854-31-5 | 0,1 | n.d. |
| rfluorooctane sulfonic acid (PFOS) | 56773-72-3/1763-23-1 | 0,01 | n.d. |
| Perfluorooctane-sulfonamide (PFOSA) | 754-91-6 | 0,1 | n.d. |
| Perfluoro n-octanoic acid (PFOA) | 335-67-1/ 3825-26-1 | 0,01 | n.d. |
| Perfluoro n-nonanoic acid (PFNA) | 375-95-1 | 0,1 | n.d. |
| Perfluoro n-decanoic acid (PFDA) | 335-76-2 | 0,1 | n.d. |
| Perfluoroundecanoic acid (PFUnA) | 2058-94-8/ 4234-23-5 | 0,1 | n.d. |
| 2H,2H,3H,3H- Perfluoroundecanoic acid (4HPFUnA) | 34598-33-9 | 0,1 | n.d. |
| Perfluorododecanoic acid (PFDoA) | 307-55-1 | 0,1 | n.d. |
| Perfluorotridecanoic acid (PFTrDA) | 72629-94-8 | 0,1 | n.d. |
| Perfluorotetradecanoic acid (PFTeDA) | 376-06-7 | 0,1 | n.d. |
| Perfluoro-3,7-dimethyloctanoic acid (PF-3,7-DMOA) | 172155-07-6 | 0,1 | n.d. |
| 1H,1H,2H,2H,Perfluorooctanesulfonic acid (H4PFOS 6-2) | 27619-97-2 | 0,1 | n.d. |
| 2- (N- methylperfluoro-1-octonesulfonamido) - ethanol(N-MeFOSE) | 24448-09-7 | 0,1 | n.d. |
| 2- (N- Ethylperfluoro-1-octonesulfonamido) - ethanol(N-EtFOSE) | 1691-99-2 | 0,1 | n.d. |
| N-methylperfluoro-1-octanesulfonamide (N-MeFOSA) | 31506-21-8 | 0,1 | n.d. |
| N-Ethylperfluoro-1-octanesulfonamide (N-EtFOSA) | 4151-50-2 | 0,1 | n.d. |

Legend: n.d.:not detectable (lower than detection limit LOD)

NOTE: $\mu\text{g}/\text{m}^2$ is not a suitable unit because the tested specimen is a yarn.

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* DETERMINATION OF HEAVY METALS TOTAL CONTENT

Process:

Test method: Internal Method: Microwave acid digestion followed
by ICP-OES determination based on
CPSC-CH-E1002-08.03 -2012

Results:

| Heavy Metal | CAS | DETECTION LIMIT | RESULTS (mg/kg) |
|-------------|---------|--------------------|--------------------|
| Pb | Lead | 0,1 | N.D. |
| Hg | Mercury | 0,1 | N.D. |
| Cd | Cadmium | 0,05 | N.D. |

N.D. = Not Detectable

Prato, July 06 2021

P.I. Primo Brachi
Direttore



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n2+dIH7ilfpcVuQhTLG3lg=

FINE DEL RAPPORTO DI PROVA
END OF TEST REPORT

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