

BRACHI TESTING SERVICES

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RAPPORTO DI PROVA N°: 003549/20
Test Report N°:

DITTA PRESENTATRICE: TESSILFIBRE SPA - VIA XXV APRILE, 33 - POGGIO A
Company: CAIANO (PO)

CAMPIONE: Sample of textile fibers colour black named STYLE FIBRA
Sample: ACRILICA TOPS OUTDOOR BLACK LOTTO 14359 COL
BLACK

CAMPIONAMENTO: Made by the customer
Sampling:

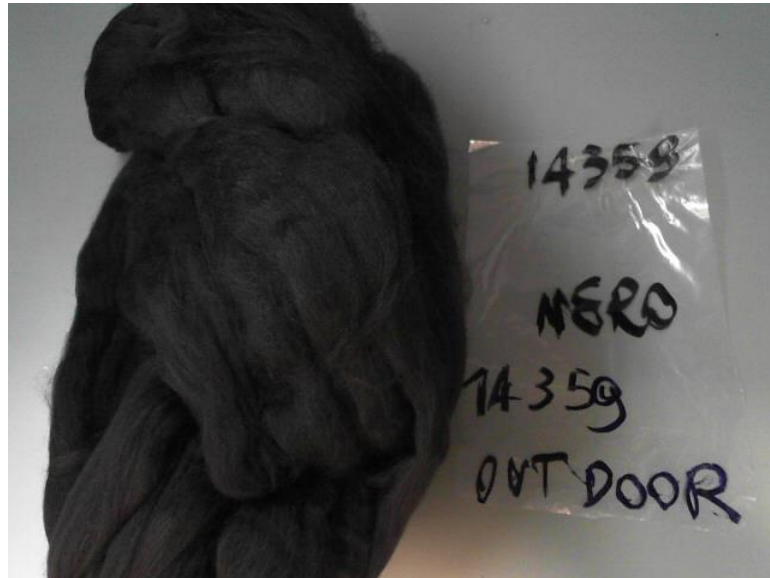
DATA RICEVIMENTO: february 11 2020
Date of Receipt:

DATA ESECUZIONE PROVE From the date of receipt to the date of issue
Test execution date:

OGGETTO: Various Analysis
Subject:

RISULTATI DI LABORATORIO

TEST RESULTS



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

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The analysed samples will be kept for three months.

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IL DIRETTORE
P.I. Primo Brachi

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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 : ISO 14362-1: 2017
Color of sample : Black

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-Amminobiphenyle	N.D.	92-67-1	A,B	1
Benzidine	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-Trimetilanolina	N.D.	137-17-7	-	1
o-Anisidine	N.D.	90-04-0	-	1
* 2,4 -xylydine	N.D.	95-68-1	-	1
* 2,6 -Xylydine	N.D.	87-62-7	-	1

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

Legenda : ND : not detectable

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-phenylendiamine (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 SOLUBLE HEXAVALENT CHROMIUM

Process :

Test Method

Process

: BS 6810: 1987 SEZ. 4 E 8.5

: Extraction with sodium tetraborate solution at 40°C for 30 min., reaction with dyphenylcarbazine (DPC) and spectrophotometric determination at 540 nm.

Results:

	DETECTION LIMIT (mg/kg)	QUATIFICATION LIMIT (mg/kg)	TEST 1 (mg/kg)	TEST 2 (mg/kg)	AVERAGE (mg/kg)
Chromium VI (CrVI)	1	3	N.D.	N.D.	---

Legend: N.D. not detectable (lower then detection limit)

Note: determination of volatile substances is carry out only if the sample is positive.

* 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

DETECTION RESULTS
LIMIT (mg/kg)

Cd	Cadmium	1	N.D.
Pb	Lead	1	N.D.
Hg	Mercury	1	N.D.

N.D. = Not Detectable

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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) : --- g
Total mass (mt) : 0.374 g
Not detectable : </= LOD
Testing date : 24/02/20

Results:

Substances	CAS	Detection limit (mg/kg)	Results (mg/kg)
Dibutyl phthalate/ (DBP)	84-74-2	10,0	N.D.
Di(2 ethylhexyl) phthalate/ (DEHP)	117-81-7	10,0	N.D.
Benzyl butyl phthalate/ (BBP)	85-68-7	10,0	N.D.
Di-isononyl phthalate/ (DINP)	28553-12-0	10,0	N.D.
Di-n-octyl phthalate/ (DnOP)	117-84-0	10,0	N.D.
Di-isodecyl phthalate/(DIDP)	26761-40-0	10,0	N.D.
Di-isobutyl phthalate/ (DIBP)	84-69-5	10,0	N.D.
Di-n-hexyl phtalate/ (DnHP)	84-75-3	10,0	N.D.
Di-(2-methoxyethyl)-phthalate/(DMEP)	117-82-8	10,0	N.D.
Di-C7-11-branched alkylphthalates/ (DHNUP)	68515-42-4	10,0	N.D.
Di-C6-8-branched alkylphthalates/ (DIHP)	71888-89-6	10,0	N.D.
Dipentyl phthalate (DPP)	131-18-0	10,0	N.D.
Diisopnetyl phthalate (DIPP)	605-50-5	10,0	N.D.
N-pentyl-isopentylphthalate (NPIPP)	776297-69-9	10,0	N.D.

Note: N.D.= not detectable

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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:

APEOs	CAS	Results mg/kg
Nonylphenol ethoxylates NPEO (1-2)various		N.D.
Nonylphenol ethoxylates NPEO (3-18)various		N.D.
Nonylphenol ethoxylates	9016-45-9, 68412-54-4, 37205-87-1 127087-87-0	64,4
4 - Nonylphenol, ethoxylated	26027-38-3	N.D.
Nonylphenol ethoxylates NPEO (1-2)various		N.D.
Nonylphenol ethoxylates NPEO (3-18)various		N.D.
4-tert-octylphenoethoxylates	9036-19-5, 68987-90-6	N.D.

Legenda: N.D.= not detectable

Detection Limit: 1 mg/kg

APs	CAS	Results mg/kg
4-(1,1,3,3-Tetramethylbutyl)- phenol	140-66-9	N.D.
Octylphenol	27193-28-8	N.D.
4- Octylphenol	1806-26-4	N.D.
4-Nonylphenol (branched)	25154-52-3	N.D.
Nonylphenol	104-40-5	N.D.
Nonylphenol (mixed isomers)	90481-04-2	2,6
Legenda: N.D.= not detectable		
Detection Limit: 1 mg/kg		

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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:

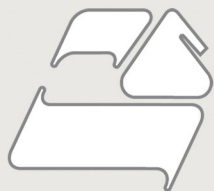
SUBSTANCE	CAS N	Detection Limit mg/kg	RESULT mg/kg
Perfluorobutanoic acid (PFBA)	375-22-4	0,01	N.D.
Perfluoropentanoic acid (PFPeA)	2706-90-3	0,01	N.D.
Perfluoro-n-hexanoic acid (PFHxA)	307-24-4	0,01	N.D.
Perfluoroheptanoic acid (PFHpA)	375-85-9	0,01	N.D.
Perfluorooctanoic acid (PFOA)	335-67-1	0,01	N.D.
perfluorononanoic acid (PFNA)	375-95-1	0,01	N.D.
perfluorodecanoic acid (PFDA)	335-76-2	0,01	N.D.
Perfluoroundecanoic acid (PFUnA)	2058-94-8	0,01	N.D.
Perfluorododecanoic acid (PFDoA)	307-55-1	0,01	N.D.
perfluorotridecanoic acid (PFTrA)	72629-94-8	0,01	N.D.
Perfluorotetradecanoic acid (PFTeA)	376-06-7	0,01	N.D.
Perfluorobutane (PFBS)	375-73-5	0,01	N.D.
Perfluorohexane sulphonates (PFHxS)	355-46-4	0,01	N.D.
Perfluoro-1-heptanesulfonic acid (PFHpS)	375-92-8	0,01	N.D.
Perfluorooctane sulfonate (PFOS)	1763-23-1	0,01	N.D.
PFDS	335-77-3	0,01	N.D.
1H,1H,2H,2H-Perfluoro-1-Hexanol (4:2 FTOH)	2043-47-2	0,1	N.D.
1H,1H,2H,2H-Perfluoro-1-Oktanol (6:2 FTOH)	647-42-7	0,1	N.D.
1H,1H,2H,2H-Perfluoro-1-Decanol (8:2 FTOH)	678-39-7	0,1	N.D.
1H,1H,2H,2H-Perfluoro-1-Dodecanol (10:2 FTOH)	865-86-1	0,1	N.D.
1H,1H,2H,2H- Perfluorooctylacrylate (6:2 FTA)	17527-29-6	0,01	N.D.

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1H,1H,2H,2H- Perfluorodecylacrylate (8:2 FTA)	27905-45-9	0,01	N.D.
1H,1H,2H,2H- Perfluorododecylacrylate (10:2 FTA)	17741-60-5	0,01	N.D.
perfluorooctane sulfonamide (PFOSA)	754-91-6	0,01	N.D.
N-methylperfluoro-1-octanesulfonamide (MeFOSA)	31506-32-8	0,01	N.D.
N-ethylperfluoro-1-octanesulfonamide (EtFOSA)	4151-50-2	0,01	N.D.
N-Me –FOSE alcohol	24448-09-7	0,01	N.D.
2-(N-ethylperfluoro-1-octanesulfonamido)-ethanol (EtFOSE)	1691-99-2	0,01	N.D.
Perfluoro-3,7-dimethylotanoic Acid (PF-3,7-DMOA)	172155-07-6	0,01	N.D.
(HPFHpA)	1546-95-8	0,01	N.D.
4HPFuNA	34598-33-9	0,01	N.D.
1H,1H,2H,2H- PFOS	27619-97-2	0,01	N.D.

*** FLAME RETARDANT**

Test Method :GB/T24279-2009

Results:

Substances	CAS	Detection limit mg/kg	Results mg/kg
Polybrominated diphenyl ethers (PBDEs) various		5,0	N.D.
Monobromo diphenyl ethers (MonoBDE)		5,0	N.D.
Dibromo diphenyl ethers (DiBDE)		5,0	N.D.
Tribromo diphenyl ethers (TriBDFE)		5,0	N.D.
Tetrabromo diphenyl ethers (TetraBDE)	40088-47-9	5,0	N.D.
Pentabromo diphenyl ethers (PentaBDE)	32534-81-9	5,0	N.D.
Hexabromo diphenyl ethers (HexaBDE)	36483-60-0	5,0	N.D.
Heptabromo diphenyl ethers (HeptaBDE)	68928-80-3	5,0	N.D.

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Octabromo diphenyl ethers (OctaBDE)	32536-52-0	5,0	N.D.
Nonabromo diphenyl ethers (NonaBDE)	63936-56-1	5,0	N.D.
Decabromo diphenyl ethers (DecaBDE)	1163-19-5	5,0	N.D.
Tris(2,3,-dibromopropyl)- phosphate (TRIS)	126-72-7	5,0	N.D.
Tris(2-chloroethyl)phosphate (TCEP)	115-96-8	5,0	N.D.
Hexabromocyclodecane (HBCDD)	134237-50-6, 134237-51-7	5,0	N.D.
Tetrabromobisphenol A (TBBPA)	79-94-7	5,0	N.D.
Bis(2,3-dibromopropyl)phosphate	5412-25-9	5,0	N.D.
Tris(1,3-dichloro-isopropyl) phosphate (TDCPP)	13674-87-8	5,0	N.D.
Tris(1-chloro-propyl) phosphate (TCPP)	13674-84-5	5,0	N.D.

Note: N.D.= not detectable

Prato, 25 febbraio 2020

P.I. Primo Brachi
Direttore



END OF TEST REPORT

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