



**BUREAU
VERITAS**

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RECEIPT 05/11/2019

TESTING DATES FROM 05/11/2019 TO 20/11/2019

COMMITTENT
ONGETTA SRL UNIPERSONALE
VIA DALLA TORRE 5 LEVADA
31047 PONTE DI PIAVE TV

LABORATORY REPORT n° 1939384 of 20/11/2019

DENOMINATION Analyses purchased by: GIULIA
Article: SILK FABRIC (100% SILK) TWILL (ART. 13151
REF. ONGETTA SRL and ITALTEXTIL SARATA SRL
Colour: WHITE (BOILED OFF)
Type of Material: Textile
Notes: COMPOSITION: 100% SILK_ FINISHES: BOILED
OFF

Delivery Note: Not provided
Final Customer: BLUMINE
Requirements: BLUMINE NETWORK_Detox Price List for
Textile/Leather/Plastic/Chemical Products_V.1 extended list
Sampling: done by the client
Conditioning before and during the Trial: 24±2h; 20±2°C;
65±5% R.H. (If required by the test method, analysis
carried out in standard atmosphere)

Sample 01

Test	Pass	Fail	Failure result
Determination of ethoxylated alkylphenols. Part 2: indirect method - Test Method: ISO 18218-2: 2015	X		
Method for the detection and determination of alkylphenolethoxylates (APEO) - Test Method: ISO 18254: 2016	X		
Determination of chlorinated hydrocarbons in leather. Chromatographic method for short-chain chlorinated paraffins (SCCP). - Test Method: UNI EN ISO 18219: 2015	X		
Gb Extractable Heavy Metal in Textile GB 17593.2 (modified) & Cr (VI) GB 17593.3 (modified) - Internal Method: CPSD-AN-00212	X		
Determination of the phthalate content - Tetrahydrofuran method - Test Method: UNI EN ISO 14389: 2014	X		
Textiles - Determination of metals content - Part 1: Determination of metal with microwave digestions - Test Method DIN EN 16711-1:2014		X	Total Antimony [Sb] Content: 159,8 mg/kg Total Chromium [Cr] Content: 2,8 mg/kg Antimony trioxide (expressed as Sb): 191,3 mg/kg
Detection of the use of certain Azo colorants accessible with and without extracting the fibres - Test Method: UNI EN 14362-1: 2017	X		
Determination of Organotin Compounds in footwear materials - Test Method: UNI CEN ISO TS 16179: 2012	X		
Determination of Perfluorinated Compounds - Internal Method: CPSD-AN-00668	X		
Determination of FTOH in coated material by GC-MS - Internal Method: CPSD-AN-00667	X		
Perfluorinated surfactants - Test Method: UNI CEN TS 15968: 2010	X		
Determination of the content of bonds based on chlorobenzene and chlorotoluene - Test Method: DIN 54232: 2010	X		
Analysis of consumer goods - Detection and determination of pentachlorophenol in consumer goods, particularly in leather and textiles - Test Method: BVL B 82.02-8: 2001-06	X		

Continuing...

Approved on behalf of BUREAU VERITAS CERTEST srl by:
Dr. Verena BARTALINI – Laboratory Manager



LAB N. 1480



Analysis valid for all legal purposes (R.D. 1 march 1928 n.842)


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Sample 01

Test	Pass	Fail	Failure result
Solvent test by gas GC-HS - Inhouse test Method: CPSD-AN-00100 Rev.36: 2017	X		
Michler's Ketone and Base - Inhouse Test Method: IOP 55: 2016 Rev00	X		
Glycol in textiles and plastics by GC-MS - Inhouse Method: CPSD AN 00822	X		
Bisphenol A, in plastics and textiles - Internal Method: CPSD-AN-00169	X		
Test method to quantitatively determine polycyclic aromatic Hydrocarbons (PAH) in footwear materials - Test Method: UNI CEN ISO TS 16190: 2013	X		
Footwear - Critical substances potentially present in footwear and footwear components - Determination of Nitrosamines - Test method: ISO/DIS 19577: 2019	X		
Determination of Epichlorohydrin - Inhouse Method: IOP 157 Rev.00:2019	X		
Determination of Acrylonitrile and 1,3-Butadiene - Inhouse Method: IOP 158 Rev.00:2019	X		
Determination of Ethyl acrylate - Inhouse Method: IOP 159 Rev.00: 2019	X		
Determination of Acrylamide - Inhouse Method: IOP 160 Rev.00: 2019	X		
Determination of Vinyl chloride monomer (VCM) - Internal Method: CPSD-AN-00099	X		
Determination of Acrylamide - Inhouse Method: IOP 161 Rev.00: 2019	X		
Determination of formaldehyde Part 1: Free and hydrolized formaldehyde (water extraction method) - Test Method: UNI EN ISO 14184-1: 2011	X		
Detection of disperse dyestuffs - Test Method: DIN 54231: 2005	X		
Determination of flame retardants - Test method: ISO 17881-1: 2016	X		
Determination of flame retardants - Test method: ISO 17881-2: 2016	X		
TRIS, BIS, HBCDD, TBBPA, BBMP & BDBPT in textile - Internal Method: CPSD-AN-00131	X		

Pass = Meets Buyer's requirements

Fail = Does not meet Buyer's requirements

-- = Buyer's requirements not defined

The values in brackets represent requirements stated in the document named in the "Requirements" field of the "Denomination" section

Continuing...

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31047 PONTE DI PIAVE TV
LABORATORY REPORT n° 1939384 of 20/11/2019

TEST METHOD	PARAMETER	RESULT	LIMITS	U.M.	L.O.Q.	NOTES	ASSESS.
	Sample 1939384.01						
Determination of ethoxylated alkylphenols. Part 2: indirect method - Test Method: ISO 18218-2: 2015 <u>Operating Conditions</u> - Solvent extraction - Determination by GC-MS analysis (L2)	4-n- Nonylphenol (4-n-NP) (CAS N. 104-40-5) 4-n-Octylphenol (n-OP) (CAS N. 1806-26-4) 4-tert-Octylphenol (tert-4-OP) (CAS N. 140-66-9) Nonylphenol (NPs) (CAS N. 84852-15-3) tert-Octylphenol (tert-OP) (CAS N. 27193-28-8)	< L.O.Q. < L.O.Q. < L.O.Q. < L.O.Q. < L.O.Q.	<1 <1 <1 <1 <1	mg/kg mg/kg mg/kg mg/kg mg/kg	1 1 1 1 1		Pass Pass Pass Pass Pass
Method for the detection and determination of alkylphenoethoxylates (APEO) - Test Method: ISO 18254: 2016 <u>Operating Conditions</u> - Solvent extraction - Determination by LC-MS analysis (L1)	Nonylphenoethoxylates (IGEPAL CO-630), (NPEOs) (CAS N. 68412-54-4) Octylphenoethoxylates (Triton X-100), (OPEOs 2-16) (CAS N. 9002-93-1)	< L.O.Q. < L.O.Q.	<1 <1	mg/kg mg/kg	1 1		Pass Pass
Determination of chlorinated hydrocarbons in leather. Chromatographic method for short-chain chlorinated paraffins (SCCP). - Test Method: UNI EN ISO 18219: 2015 <u>Operating Conditions</u> - Ultrasonic extraction procedure: 60°C for 1h. - Determination by GC-ECNI-MS analysis. (L1)	Amount of extracted SCCP (C10-C13) (CAS N.85535-84-8)	< L.O.Q.	<10	mg/kg	10		Pass

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31047 PONTE DI PIAVE TV**
LABORATORY REPORT n° 1939384 of 20/11/2019

TEST METHOD	PARAMETER	RESULT	LIMITS	U.M.	L.O.Q.	NOTES	ASSESS.
Gb Extractable Heavy Metal in Textile GB 17593.2 (modified) & Cr (VI) GB 17593.3 (modified) - Internal Method: CPSD-AN-00212 <u>Operating Conditions</u> - Acid Sweat Extraction - Determination by analysis UV-VIS	Total Hexavalent Chromium (Cr-VI) Content (*)	< L.O.Q.	<0,5	mg/kg	0,5		Pass
Determination of the phthalate content - Tetrahydrofuran method - Test Method: UNI EN ISO 14389: 2014 <u>Operating Conditions</u> - Extraction in ultrasonic bath - Detection by GC-MS analysis (L1)	Phthalates (*) 1,2-BenzeneDiCarboxylicAcid, DiHexylester, Branched and Linear (CAS N. 68515-50-4) (*) Bis (2-Methoxyethyl) Phthalate (DMEP) (CAS N.117-82-8) Bis-2-Etylhexyl Phthalate (DEHP) (CAS N. 117-81-7) Butyl Benzil Phthalate (BBP) (CAS N. 85-68-7) Di-cyclohexyl phthalate (DCHP) (CAS N.84-61-7) Di-iso-decil Phthalate (DIDP) (CAS N. 68515-49-1) Di-iso-nonyl Phthalate (DINP) (CAS N. 68515-48-0) Di-iso-octyl phthalate (DIOP) (CAS N. 27554-26-3) Di-isobutyl Phthalate (DIBP) (CAS N. 84-69-5) Di-isoheptyl Phthalate (DIHP) (CAS N. 71888-89-6) (*) Di-isopentyl Phthalate (DIPP) (CAS N. 605-50-5) Di-n-hexyl Phthalate (DnHP) (CAS N. 84-75-3) Di-n-octyl Phthalate (DnOP) (CAS N. 117-84-0) Di-n-propyl phthalate (DPRP) (CAS N. 131-16-8) Dibutyl Phthalate (DBP) (CAS N. 84-74-2)	< L.O.Q. < L.O.Q. < L.O.Q. < L.O.Q. < L.O.Q. < L.O.Q. < L.O.Q. < L.O.Q. < L.O.Q. < L.O.Q. < L.O.Q. < L.O.Q. < L.O.Q. < L.O.Q. < L.O.Q. < L.O.Q. < L.O.Q. < L.O.Q. < L.O.Q. < L.O.Q. < L.O.Q.	<10 <10 <10 <10 <10 <100 <100 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10	mg/kg mg/kg	10 10 10 10 10 100 100 10 10 10 10 10 10 10 10 10 10 10 10 10		Pass Pass Pass Pass Pass Pass Pass Pass Pass Pass Pass Pass Pass Pass Pass Pass Pass Pass Pass

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LABORATORY REPORT n° 1939384 of 20/11/2019

TEST METHOD	PARAMETER	RESULT	LIMITS	U.M.	L.O.Q.	NOTES	ASSESS.
	Diethyl Phthalate (DEP) (CAS N. 84-66-2)	< L.O.Q.	<10	mg/kg	10		Pass
	Diisohexyle phthalate (DIHxP) (CAS 71850-09-4) (*)	< L.O.Q.	<10	mg/kg	10		Pass
	Dinonyl phthalate (DNP) (CAS N. 84-76-4)	< L.O.Q.	<10	mg/kg	10		Pass
	Dipentyl Phthalate (DPP) (CAS N. 131-18-0)	< L.O.Q.	<10	mg/kg	10		Pass
	Diundecil Phthalate (DHNU) (CAS N. 68515-42-4) (*)	< L.O.Q.	<100	mg/kg	100		Pass
	N-pentyl-isopentyl phthalate (NPIPP) (CAS 776297-69-9)	< L.O.Q.	<10	mg/kg	10		Pass
Textiles - Determination of metals content - Part 1: Determination of metal with microwave digestions - Test Method DIN EN 16711-1:2014 <u>Operating Conditions</u> - Microwave digestion - Determination by ICP-MS analysis (L1)	Heavy Metals Total Cadmium [Cd] Content Total Lead [Pb] Content Total Mercury [Hg] Content (*) Total Antimony [Sb] Content (*) Total Arsenic [As] Content (*) Total Cobalt [Co] Content (*) Total Nickel [Ni] Content (*) Total Boron [B] Content (*) Total Chromium [Cr] Content	< L.O.Q. < L.O.Q. < L.O.Q. 159,8 < L.O.Q. < L.O.Q. < L.O.Q. < L.O.Q. 2,8	<0,5 <0,5 <0,02 <0,5 <0,005 <0,001 <0,006 <0,5 <0,1	mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg	0,5 0,5 0,02 0,5 0,005 0,001 0,006 0,5 0,1		Pass Pass Pass Fail Pass Pass Pass Pass Fail
Detection of the use of certain Azo colorants accessible with and without extracting the fibres - Test Method: UNI EN 14362-1: 2017 <u>Operating Conditions</u> - Quantitative Detection: GC-MS - Confirmation by LC-DAD+LC MS (L2)	Aromatic amines derived from azodyes on fabric 4-Aminobiphenyl (CAS N 92-67-1) Benzidine (CAS 92-87-5) 4-Chloro-o-toluidine (CAS N. 95-69-2) 2-Naphthylamine (CAS N. 91-59-8) o-Aminoazotoluene (CAS 97-56-3)	< L.O.Q. < L.O.Q. < L.O.Q. < L.O.Q. < L.O.Q.	<5 <5 <5 <5 <5	mg/kg mg/kg mg/kg mg/kg mg/kg	5 5 5 5 5	(1) (1)	Pass Pass Pass Pass Pass

Continuing...

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LABORATORY REPORT n° 1939384 of 20/11/2019

TEST METHOD	PARAMETER	RESULT	LIMITS	U.M.	L.O.Q.	NOTES	ASSESS.
	5-nitro-o-toluidine (CAS 99-55-8)	< L.O.Q.	<5	mg/kg	5	MDA	Pass
	4-Chloroaniline (CAS N. 106-47-8)	< L.O.Q.	<5	mg/kg	5		Pass
	4-methoxy-m-phenylenediamine (CAS 615-05-04)	< L.O.Q.	<5	mg/kg	5		Pass
	4,4'-methylenedianiline (CAS 101-77-9)	< L.O.Q.	<5	mg/kg	5		Pass
	3,3'-Dichlorobenzidine (CAS N. 91-94-1)	< L.O.Q.	<5	mg/kg	5		Pass
	3,3'-Dimethoxybenzidine (CAS N. 119-90-4)	< L.O.Q.	<5	mg/kg	5		Pass
	3,3'-Dimethylbenzidine (CAS N. 119-93-7)	< L.O.Q.	<5	mg/kg	5		Pass
	4,4'-methylenedi-o-toluidine (CAS N. 838-88-0)	< L.O.Q.	<5	mg/kg	5		Pass
	p-cresidine (CAS 120-71-8)	< L.O.Q.	<5	mg/kg	5		Pass
	4-4'-Methylene-bis-(2-chloroaniline) (CAS N. 101-14-4)	< L.O.Q.	<5	mg/kg	5		Pass
	4-4'-Oxydianiline (CAS N 101-80-4)	< L.O.Q.	<5	mg/kg	5	TDA	Pass
	4-4'-Thiodianiline (CAS N. 139-65-1)	< L.O.Q.	<5	mg/kg	5		Pass
	o-Toluidine (CAS 95-53-4)	< L.O.Q.	<5	mg/kg	5		Pass
	4-methyl-m-phenylenediamine (CAS 95-80-7)	< L.O.Q.	<5	mg/kg	5		Pass
	2,4,5-Trimethylaniline (CAS N. 137-17-7)	< L.O.Q.	<5	mg/kg	5		Pass
	o-anisidine (CAS 90-04-0)	< L.O.Q.	<5	mg/kg	5		Pass
	4-Aminoazobenzene (CAS N. 60-09-3)	< L.O.Q.	<5	mg/kg	5		Pass
	2,4- Xylidine (CAS 95-68-1)	< L.O.Q.	<5	mg/kg	5		Pass
	2,6-Xylidine (CAS N. 87-62-7)	< L.O.Q.	<5	mg/kg	5		Pass
	Aniline (CAS 62-53-3) (*)	< L.O.Q.	<5	mg/kg	5		Pass
Determination of Organotin Compounds in footwear materials - Test Method: UNI CEN ISO TS 16179: 2012 <u>Operating Conditions</u> - Methanol extraction + derivatization - Detection by GC-MS analysis (L1)	Organotin compounds						
	Dibutyl tin (DBT)	< L.O.Q.	<0,2	mg/kg	0,2	Pass	
	Dimethyltin (DMT) (*)	< L.O.Q.	<0,2	mg/kg	0,2	Pass	
	Dioctyl tin (DOT)	< L.O.Q.	<0,2	mg/kg	0,2	Pass	
	Diphenyltin (DPT) (*)	< L.O.Q.	<0,2	mg/kg	0,2	Pass	
	Methyl tin (MeT) (*)	< L.O.Q.	<0,2	mg/kg	0,2	Pass	
	Monobutyl tin (MBT)	< L.O.Q.	<0,2	mg/kg	0,2	Pass	
	Monooctyl tin (MOT)	< L.O.Q.	<0,2	mg/kg	0,2	Pass	
	Phenyltin tin (TPHT)	< L.O.Q.	<0,2	mg/kg	0,2	Pass	

Continuing...

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LABORATORY REPORT n° 1939384 of 20/11/2019

TEST METHOD	PARAMETER	RESULT	LIMITS	U.M.	L.O.Q.	NOTES	ASSESS.
	Tetrabutyl tin (TeBT)	< L.O.Q.	<0,2	mg/kg	0,2		Pass
	Tetraethyltin (TeET) (*)	< L.O.Q.	<0,2	mg/kg	0,2		Pass
	Tributyl tin (TBT)	< L.O.Q.	<0,02	mg/kg	0,02		Pass
	Tricyclohexyltin (TCyHT)	< L.O.Q.	<0,2	mg/kg	0,2		Pass
	Trimethyl tin (TMT) (*)	< L.O.Q.	<0,2	mg/kg	0,2		Pass
	Trioctyltin (TOT) (*)	< L.O.Q.	<0,2	mg/kg	0,2		Pass
	Triphenyltin (TPhT)	< L.O.Q.	<0,2	mg/kg	0,2		Pass
	Tripropyltin (TPT) (*)	< L.O.Q.	<0,2	mg/kg	0,2		Pass
Determination of Perfluorinated Compounds - Internal Method: CPSD-AN-00668 <u>Operating Conditions</u> -Solvent extraction and determination by LC-MS QQQ+ GC-MS QQQ (L1)	Perfluorinated Chemicals (PFCs)						
	1H,1H,2H,2H-perfluorooctylacrylate (6:2 FTA) (CAS N. 17527-29-6)	< L.O.Q.	<1	µg/m2	1		Pass
	1H,1H,2H,2H-perfluorodecylacrylate (8:2 FTA) (CAS N.27905-45-9)	< L.O.Q.	<1	µg/m2	1		Pass
	1H,1H,2H,2H-perfluorododecylacrylate (10:2 FTA) (CAS N.17741-60-5)	< L.O.Q.	<1	µg/m2	1		Pass
	1H,1H,2H,2H-Perfluorooctanesulphonic acid (1H,1H,2H,2H-PFOS) (CAS N 27619-97-2)	< L.O.Q.	<1	µg/m2	1		Pass
	2-(N-ethylperfluoro-1-octanesulfonamido)-ethanol (N-EtFOSE) (CAS N.1691-99-2)	< L.O.Q.	<1	µg/m2	1		Pass
	2-(N-methylperfluoro-1-octanesulfonamido)-ethanol (N-MeFOSE) (CAS N. 24448-09-7)	< L.O.Q.	<1	µg/m2	1		Pass
	2H,2H,3H,3H-perfluoroundecanoic acid (H4PFUnA) (CAS N.34598-33-9)	< L.O.Q.	<1	µg/m2	1		Pass
	7H-dodecafluoroheptanoic acid (HPFHpA) (CAS N.1546-95-8)	< L.O.Q.	<1	µg/m2	1		Pass
	N-ethylperfluoro-1-octanesulfonamide (N- EtFOSA) (CAS N. 4151-50-2)	< L.O.Q.	<1	µg/m2	1		Pass
	N-methylperfluoro-1-octanesulfonamide (N-MeFOSA) (CAS N.31506-32-8)	< L.O.Q.	<1	µg/m2	1		Pass
	Perfluoro-1- heptanesulfonic acid (PFHpS) (CAS N.375-92-8)	< L.O.Q.	<1	µg/m2	1		Pass
	Perfluoro-3,7-dimethyloctanoic acid (PF-3,7-DMOA) (CAS N.172155-07-6)	< L.O.Q.	<1	µg/m2	1		Pass
	Perfluoro-n-decanoic acid (PFDA) (CAS N.335-76-2)	< L.O.Q.	<1	µg/m2	1		Pass

Continuing...

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TEST METHOD	PARAMETER	RESULT	LIMITS	U.M.	L.O.Q.	NOTES	ASSESS.
	Perfluoro-n-heptanoic acid (PFHpA) (CAS N.375-85-9)	< L.O.Q.	<1	µg/m2	1		Pass
	Perfluoro-n-hexanoic acid (PFHxA) (CAS N. 307-24-4)	< L.O.Q.	<1	µg/m2	1		Pass
	Perfluoro-n-nonanoic acid (PFNA) (CAS N. 375-95-1)	< L.O.Q.	<1	µg/m2	1		Pass
	Perfluoro-n-octanoic acid (PFOA) (CAS N. 335-67-1)	< L.O.Q.	<1	µg/m2	1		Pass
	Perfluorobutanesulfonic acid (PFBS) (CAS N.375-73-5)	< L.O.Q.	<1	µg/m2	1		Pass
	Perfluorobutyric acid (PFBA) (CAS N.375-22-4)	< L.O.Q.	<1	µg/m2	1		Pass
	Perfluorodecanesulfonic acid (PFDS) (CAS N.335-77-3)	< L.O.Q.	<1	µg/m2	1		Pass
	Perfluorododecanoic acid (PFDoA) (CAS N.307-55-1)	< L.O.Q.	<1	µg/m2	1		Pass
	Perfluorohexanesulfonic acid (PFHxS) (CAS N.355-46-4)	< L.O.Q.	<1	µg/m2	1		Pass
	Perfluorooctane sulfonamide (PFOSA) (CAS N. 754-91-6)	< L.O.Q.	<1	µg/m2	1		Pass
	Perfluorotetradecanoic acid (PFTeA) (CAS N.376-06-7)	< L.O.Q.	<1	µg/m2	1		Pass
	Perfluorotridecanoic acid (PFTrA) (CAS N.72629-94-8)	< L.O.Q.	<1	µg/m2	1		Pass
	Perfluoroundecanoic acid (PFUnA) (CAS N.2058-94-8) (*)	< L.O.Q.	<1	µg/m2	1		Pass
	Perfluoropentanoic acid (PFPA)	< L.O.Q.	<1	µg/m2	1		Pass
Determination of FTOH in coated material by GC-MS - Internal Method: CPSD-AN-00667 <u>Operating Conditions</u> -Solvent extraction and determination by GC-MS QQQ (L2)							
	2- Perfluorobutylethanol (4:2 FTOH) (CAS N.2043-47-2)	< L.O.Q.	<10	µg/m2	10		Pass
	2- Perfluorohexylethanol (6:2 FTOH) (CAS N.647-42-7)	< L.O.Q.	<10	µg/m2	10		Pass
	2-Perfluorodecylethanol (10:2 FTOH) (CAS N865-86-1)	< L.O.Q.	<10	µg/m2	10		Pass
	2-Perfluorooctylethanol (8:2 FTOH) (CAS N.678-39-7)	< L.O.Q.	<10	µg/m2	10		Pass

Continuing...

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ONGETTA SRL UNIPERSONALE
VIA DALLA TORRE 5 LEVADA
31047 PONTE DI PIAVE TV
LABORATORY REPORT n° 1939384 of 20/11/2019

TEST METHOD	PARAMETER	RESULT	LIMITS	U.M.	L.O.Q.	NOTES	ASSESS.
Perfluorinated surfactants - Test Method: UNI CEN TS 15968: 2010 <u>Operating Conditions</u> - Methanol ultrasonic extraction, 2h at 60°C - Determination by LC-MS MS (L1)	Perfluorooctane sulfonate and related compounds (PFOS)	< L.O.Q.	<1	µg/m2	1		Pass
Determination of the content of bonds based on chlorobenzene and chlorotoluene - Test Method: DIN 54232: 2010 <u>Operating Conditions</u> - Solvent extraction - Determination by GC-MS analysis (L2)	1,2-Dichlorobenzene (CAS N.95-50-1) (*) 1,3-Dichlorobenzene (CAS N.541-73-1) (*) 1,4-Dichlorobenzene (CAS N.106-46-7) (*) 1,2,3-Trichlorobenzene (CAS N.87-61-6) (*) 1,2,4 Trichlorobenzene (CAS N.120-82-1) (*) 1,3,5-Trichlorobenzene (CAS N.108-70-3) (*) 1,2,3,4-Tetrachlorobenzene (CAS N.634-66-2) (*) 1,2,3,5-Tetrachlorobenzene (CAS N.634-90-2), 1,2,4,5-Tetrachlorobenzene (CAS N.95-94-3) (*) Pentachlorobenzene (CAS N.608-93-5) (*) Hexachlorobenzene (CAS N.118-74-1) (*) Chlorobenzene (CAS N.108-90-7) (*) a,a-Dichlorotoluene (CAS N.98-87-3) (*) alpha, alpha, alpha 4-tetrachlorotoluene (CAS N.5216-25-1) (*) Benzotrichloride (CAS N.98-07-7) (*) Benzyl chloride (CAS 100-44-7) (*)	< L.O.Q.	<0,1	mg/kg	0,1		Pass
		< L.O.Q.	<0,1	mg/kg	0,1		Pass
		< L.O.Q.	<0,1	mg/kg	0,1		Pass
		< L.O.Q.	<0,1	mg/kg	0,1		Pass
		< L.O.Q.	<0,1	mg/kg	0,1		Pass
		< L.O.Q.	<0,1	mg/kg	0,1		Pass
		< L.O.Q.	<0,1	mg/kg	0,1		Pass
		< L.O.Q.	<0,1	mg/kg	0,1		Pass
		< L.O.Q.	<0,1	mg/kg	0,1		Pass
		< L.O.Q.	<0,1	mg/kg	0,1		Pass
		< L.O.Q.	<0,1	mg/kg	0,1		Pass
		< L.O.Q.	<0,1	mg/kg	0,1		Pass
		< L.O.Q.	<0,1	mg/kg	0,1		Pass
		< L.O.Q.	<0,1	mg/kg	0,1		Pass
		< L.O.Q.	<0,1	mg/kg	0,1		Pass

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TEST METHOD	PARAMETER	RESULT	LIMITS	U.M.	L.O.Q.	NOTES	ASSESS.
Analysis of consumer goods - Detection and determination of pentachlorophenol in consumer goods, particularly in leather and textiles - Test Method: BVL B 82.02-8: 2001-06 <u>Operating Conditions</u> - Detection by GC-MS analysis (L1)	Pentachlorophenol (PCP) (CAS N. 87-86-5)	< L.O.Q.	<0,05	mg/kg	0,05		Pass
	2,4,6-TriChlorophenol (2,4,6-TCP) (CAS N. 88-06-2)	< L.O.Q.	<0,05	mg/kg	0,05		Pass
	3,4,5-TriChlorophenol (3,4,5-TCP) & 2,3,4-TriChlorophenol (2,3,4-TCP) (CAS N.609-19-8 & 15950-66-0)	< L.O.Q.	<0,05	mg/kg	0,05		Pass
	2,3,5-TriChlorophenol (2,3,5-TCP) (CAS N. 933-78-8)	< L.O.Q.	<0,05	mg/kg	0,05		Pass
	2,3,6-TriChlorophenol (2,3,6-TCP) (CAS N. 933-75-5) & 2,4,5-TriChlorophenol (2,4,5-TCP) (CAS N95-95-4)	< L.O.Q.	<0,05	mg/kg	0,05		Pass
	2,3,5,6-TetraChlorophenol (2,3,5,6-TeCP) (CAS N. 935-95-5)	< L.O.Q.	<0,05	mg/kg	0,05		Pass
	2,3,4,6-TetraChlorophenol (2,3,4,6-TeCP) (CAS N. 58-90-2)	< L.O.Q.	<0,05	mg/kg	0,05		Pass
	2,3,4,5-TetraChlorophenol (2,3,4,5-TeCP) (CAS N. 4901-51-3)	< L.O.Q.	<0,05	mg/kg	0,05		Pass
	2,3- Dichlorophenol (CAS N.576-24-9)	< L.O.Q.	<0,05	mg/kg	0,05		Pass
	3,4- Dichlorophenol (CAS N.95-77-2)	< L.O.Q.	<0,05	mg/kg	0,05		Pass
	2,5-DiChlorophenol (2,5-DiCP) & 2,4-DiChlorophenol (2,4-DiCP) & 2,6-DiChlorophenol (2,6-DiCP) & 3,5 DiChlorophenol (3,5-DiCP) (CAS N.583-78-8 & CAS N. 120-83-2 & CAS N. 87-65-0 & CAS N.591-35-5) (*)	< L.O.Q.	<0,05	mg/kg	0,05		Pass
	2- Mono Chlorophenol (2-MoCP) (CAS N.95-57-8)	< L.O.Q.	<0,05	mg/kg	0,05		Pass
	3- Mono Chlorophenol (3-MoCP) (CAS N.108-43-0)	< L.O.Q.	<0,05	mg/kg	0,05		Pass
	4- Mono Chlorophenol (4-MoCP) (CAS N.106-48-9)	< L.O.Q.	<0,05	mg/kg	0,05		Pass

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TEST METHOD	PARAMETER	RESULT	LIMITS	U.M.	L.O.Q.	NOTES	ASSESS.
Solvent test by gas GC-MS - Inhouse test Method: CPSD-AN-00100 Rev.36: 2017 <u>Operating Conditions</u> - Headspace GC-MS	Chlorinated Solvents						
	Dichloromethane (CAS N.75-09-2) (*)	< L.O.Q.	<1	mg/kg	1		Pass
	Chloroform (CAS N. 67-66-3) (*)	< L.O.Q.	<1	mg/kg	1		Pass
	Tetrachloromethane (CAS N. 56-23-5) (*)	< L.O.Q.	<1	mg/kg	1		Pass
	1,1,2-Trichloroethane (CAS 79-00-5) (*)	< L.O.Q.	<1	mg/kg	1		Pass
	1,1-Dichloroethane (CAS N. 75-34-3) (*)	< L.O.Q.	<1	mg/kg	1		Pass
	1,2-Dichloroethane (CAS N. 107-06-2) (*)	< L.O.Q.	<1	mg/kg	1		Pass
	Trichloroethylene (CAS N. 79-01-6) (*)	< L.O.Q.	<1	mg/kg	1		Pass
	Perchloroethylene (CAS N.127-18-4) (*)	< L.O.Q.	<1	mg/kg	1		Pass
	1,1,1-Trichloroethane (CAS N.71-55-6) (*)	< L.O.Q.	<1	mg/kg	1		Pass
	1,1,1,2-Tetrachloroethane (CAS N. 630-20-6) (*)	< L.O.Q.	<1	mg/kg	1		Pass
	1,1,2,2-Tetrachloroethane (CAS N. 79-34-5) (*)	< L.O.Q.	<1	mg/kg	1		Pass
	Pentachloroethane (CAS N.76-01-7) (*)	< L.O.Q.	<1	mg/kg	1		Pass
	1,1-Dichloroethylene (CAS N. 75-35-4) (*)	< L.O.Q.	<1	mg/kg	1		Pass
	1,2,3-Trichloropropane (CAS N96-18-4) (*)	< L.O.Q.	<1	mg/kg	1		Pass
	1,2-Dibromoethane (CAS 106-93-4) (*)	< L.O.Q.	<1	mg/kg	1		Pass
	1-bromopropane n-propyl bromide (CAS 106-94-5) (*)	< L.O.Q.	<1	mg/kg	1		Pass
2,4-dinitrotoluene (CAS 121-14-2) (*)	< L.O.Q.	<1	mg/kg	1		Pass	
Michler's Ketone and Base - Inhouse Test Method: IOP 55: 2016 Rev00 <u>Operating Conditions</u> - Solvent extraction - Determination by LC-MS DAD analysis	Michler's Ketone (CAS90-94-8) (*)	< L.O.Q.	<10	ppm	10		Pass
	Michler's Base (CAS101-61-1) (*)	< L.O.Q.	<10	mg/kg	10		Pass

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TEST METHOD	PARAMETER	RESULT	LIMITS	U.M.	L.O.Q.	NOTES	ASSESS.
Glycol in textiles and plastics by GC-MS - Inhouse Method: CPSD AN 00822 <u>Operating Conditions</u> - Solvent extraction - GC-MS analysis	Glycols						
	Ethylene glycol (CAS N. 107-21-1) (*)	< L.O.Q.	<10	mg/kg	10		Pass
	Ethylene glycol monomethyl ether (CAS N. 109-86-4) (*)	< L.O.Q.	<10	mg/kg	10		Pass
	Ethylene glycol monomethyl ether acetate; 2-Methoxyethyl acetate (CAS N. 110-49-6) (*)	< L.O.Q.	<10	mg/kg	10		Pass
	1,2-dimethoxyethane; ethylene glycol dimethyl ether; EGDME (CAS N. 110-71-4) (*)	< L.O.Q.	<10	mg/kg	10		Pass
	Ethylene glycol monoethyl ester (CAS N. 110-80-5) (*)	< L.O.Q.	<10	mg/kg	10		Pass
	2-ethoxyethylacetate (CAS N. 111-15-9) (*)	< L.O.Q.	<10	mg/kg	10		Pass
	Bis-(2-methoxyethyl) ether (CAS N. 111-96-6) (*)	< L.O.Q.	<10	mg/kg	10		Pass
	Glycol; triglyme (TEGDME) (CAS N. 112-49-2) (*)	< L.O.Q.	<10	mg/kg	10		Pass
	1,2-Diethoxyethane (CAS 629-14-1) (*)	< L.O.Q.	<10	mg/kg	10		Pass
	2-methoxypropyl acetate (CAS 70657-70-4) (*)	< L.O.Q.	<10	mg/kg	10		Pass
Solvent test by gas GC-MS - Inhouse test Method: CPSD-AN-00100 Rev.36: 2017 <u>Operating Conditions</u> - Headspace GC-MS	VOCs						
	Benzene (CAS 71-43-2) (*)	< L.O.Q.	<1	mg/kg	1		Pass
	Ethylbenzene (CAS 100-41-4) (*)	< L.O.Q.	<10	mg/kg	10		Pass
Bisphenol A, in plastics and textiles - Internal Method: CPSD-AN-00169 <u>Operating Conditions</u> Solvent Extraction and detection by LCMS	Bisphenol A (CAS 80-05-7) (*)	< L.O.Q.	<0,1	mg/kg	0,1		Pass

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TEST METHOD	PARAMETER	RESULT	LIMITS	U.M.	L.O.Q.	NOTES	ASSESS.
Test method to quantitatively determine polycyclic aromatic Hydrocarbons (PAH) in footwear materials - Test Method: UNI CEN ISO TS 16190: 2013 <u>Operating Conditions</u> - Determination by GC-MS analysis (L2)	Polycyclic Aromatic Hydrocarbons (PAH)						
	Acenaphthene (CAS 83-32-9)	< L.O.Q.	<0,2	mg/kg	0,2		Pass
	Acenaphthylene (CAS 208-96-8)	< L.O.Q.	<0,2	mg/kg	0,2		Pass
	Anthracene (CAS 120-12-7)	< L.O.Q.	<0,2	mg/kg	0,2		Pass
	Benzo[a]anthracene (CAS 56-55-3)	< L.O.Q.	<0,2	mg/kg	0,2		Pass
	Benzo[b]fluoranthene (CAS 205-99-2)	< L.O.Q.	<0,2	mg/kg	0,2		Pass
	Benzo[j]fluoranthene (CAS 205-82-3)	< L.O.Q.	<0,2	mg/kg	0,2		Pass
	Benzo[k]fluoranthene (CAS 207-08-9)	< L.O.Q.	<0,2	mg/kg	0,2		Pass
	Benzo[a]pyrene (CAS 50-32-8)	< L.O.Q.	<0,2	mg/kg	0,2		Pass
	Benzo[e]pyrene (CAS 192-97-2)	< L.O.Q.	<0,2	mg/kg	0,2		Pass
	Benzo[g,h,i]perylene (CAS 191-24-2)	< L.O.Q.	<0,2	mg/kg	0,2		Pass
	Chrysene (CAS 218-01-9)	< L.O.Q.	<0,2	mg/kg	0,2		Pass
	Dibenzo[a,h]anthracene (CAS 53-70-3)	< L.O.Q.	<0,2	mg/kg	0,2		Pass
	Fluoranthene (CAS 206-44-0)	< L.O.Q.	<0,2	mg/kg	0,2		Pass
	Indeno[1,2,3-cd]pyrene (CAS 193-39-5)	< L.O.Q.	<0,2	mg/kg	0,2		Pass
	Naphtalene (CAS 91-20-3)	< L.O.Q.	<0,2	mg/kg	0,2		Pass
	Phenanthrene (CAS 85-01-8)	< L.O.Q.	<0,2	mg/kg	0,2		Pass
	Pyrene (CAS 129-00-0)	< L.O.Q.	<0,2	mg/kg	0,2		Pass
Fluorene	< L.O.Q.	<0,2	mg/kg	0,2		Pass	
Footwear - Critical substances potentially present in footwear and footwear components - Determination of Nitrosamines - Test method: ISO/DIS 19577: 2019 <u>Operating Conditions</u> - Solvent extraction and GC-MS determination	N-Nitrosocompounds						
	N-Nitrosodiethanolamine (CAS N. 1116-54-7) (*)	< L.O.Q.	<0,01	mg/kg	0,01		Pass
	N-Nitrosodiethylamine (NDEA) (CAS N. 55-18-5) (*)	< L.O.Q.	<0,01	mg/kg	0,01		Pass
	N-Nitrosomorpholine (NMOR) (CAS N. 59-89-2) (*)	< L.O.Q.	<0,01	mg/kg	0,01		Pass

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TEST METHOD	PARAMETER	RESULT	LIMITS	U.M.	L.O.Q.	NOTES	ASSESS.
	N-nitroso N-methyl N-phenylamine (NMPPhA); N-Methyl-N- nitrosoanilin (CAS N. 614-00-6) (*)	< L.O.Q.	<0,01	mg/kg	0,01		Pass
	N-Nitrosodi-n-butylamine (NDBA) (CAS N. 924-16-3) (*)	< L.O.Q.	<0,01	mg/kg	0,01		Pass
	N-Nitrosopiperidine (NPIP) (CAS N. 100-75-4) (*)	< L.O.Q.	<0,01	mg/kg	0,01		Pass
	N-Nitrosomethylethylamine (CAS N. 10595-95-6) (*)	< L.O.Q.	<0,01	mg/kg	0,01		Pass
	N-nitroso-N-ethyl-N-phenylamine (NEPhA); N-Ethyl-N-nitrosoanilin (CAS N. 612-64-6) (*)	< L.O.Q.	<0,01	mg/kg	0,01		Pass
	N-Nitrosodimethylamine (NDMA) (CAS N. 62-75-9) (*)	< L.O.Q.	<0,01	mg/kg	0,01		Pass
	N-Nitrosodi-n-propylamine (NDPA) (CAS N. 621-64-7) (*)	< L.O.Q.	<0,01	mg/kg	0,01		Pass
	N-Nitrosopyrrolidine (NPYR) (CAS N. 930-55-2) (*)	< L.O.Q.	<0,01	mg/kg	0,01		Pass
	p-Nitrosodiphenylamine (CAS N. 156-10-5) (*)	< L.O.Q.	<0,01	mg/kg	0,01		Pass
	N-Nitrosodiphenylamine (CAS N. 86-30-6) (*)	< L.O.Q.	<0,01	mg/kg	0,01		Pass
	N-Methyl-N'-nitro-N-nitrosoguanidine (CAS 70-25-7) (*)	< L.O.Q.	<0,01	mg/kg	0,01		Pass
Determination of Epichlorohydrin - Inhouse Method: IOP 157 Rev.00:2019 <u>Operating Conditions</u> - Headspace GC-MS (L2)	Epichlorohydrin (*)	< L.O.Q.	<1	mg/kg	1		Pass
Determination of Acrylonitrile and 1,3-Butadiene - Inhouse Method: IOP 158 Rev.00:2019 <u>Operating Conditions</u> - Headspace GC-MS (L2)	1,3-Butadiene (*)	< L.O.Q.	<0,1	mg/kg	0,1		Pass
Determination of Ethyl acrylate - Inhouse Method: IOP 159 Rev.00: 2019 <u>Operating Conditions</u> - Headspace GC-MS (L2)	Acrylonitrile (*)	< L.O.Q.	<0,1	mg/kg	0,1		Pass

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TEST METHOD	PARAMETER	RESULT	LIMITS	U.M.	L.O.Q.	NOTES	ASSESS.
Determination of Acrylamide - Inhouse Method: IOP 160 Rev.00: 2019 <u>Operating Conditions</u> - Headspace GC-MS (L2)	Ethyl acrylate (*)	< L.O.Q.	<10	mg/kg	10		Pass
Determination of Vinyl chloride monomer (VCM) - Internal Method: CPSD-AN-00099 <u>Operating Conditions</u> - Headspace GC-MS	Vinyl chloride (CAS N. 75-01-4) (*)	< L.O.Q.	<1	mg/kg	1		Pass
Determination of Acrylamide - Inhouse Method: IOP 161 Rev.00: 2019 <u>Operating Conditions</u> - LC-MS analysis (L1)	Acrylamide (*)	< L.O.Q.	<1	mg/kg	1		Pass
Determination of formaldehyde Part 1: Free and hydrolyzed formaldehyde (water extraction method) - Test Method: UNI EN ISO 14184-1: 2011 <u>Operating Conditions</u> - Calibration through linear regression between 0,15 and 0,3 µg/ml - Determination by UV-VIS spectrophotometer (L1)	Free and hydrolysed formaldehyde (CAS 50-00-0)	< L.O.Q.	<16	mg/kg	16		Pass
Detection of disperse dyestuffs - Test Method: DIN 54231: 2005 <u>Operating Conditions</u> - Solvent extraction - Determination by LC-MS analysis (L1)	Disperse, Allergenic, Carcinogenic Dyes Acid Red 114 (CAS N. 6459-94-5) (*) Acid Red 26 (CAS N. 3761-53-3) (*) Acid Violet 49 (CAS N. 1694-09-3) (*) Basic Blue 26 (CAS N. 2580-56-5) (*)	< L.O.Q. < L.O.Q. < L.O.Q. < L.O.Q.	<10 <10 <10 <10	mg/kg mg/kg mg/kg mg/kg	10 10 10 10		Pass Pass Pass Pass

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TEST METHOD	PARAMETER	RESULT	LIMITS	U.M.	L.O.Q.	NOTES	ASSESS.
	Basic Green 4 (CAS N. 569-64-2) (*)	< L.O.Q.	<10	mg/kg	10		Pass
	Basic Green 4 leuco base (CAS N. 129-73-7) (*)	< L.O.Q.	<10	mg/kg	10		Pass
	Basic Red 9 (CAS N. 569-61-9) (*)	< L.O.Q.	<10	mg/kg	10		Pass
	Basic Violet 1 (CAS N. 8004-87-3) (*)	< L.O.Q.	<10	mg/kg	10		Pass
	Basic Violet 14 (CAS N. 632-99-5) (*)	< L.O.Q.	<10	mg/kg	10		Pass
	Direct Black 38 (CAS N. 1937-37-7) (*)	< L.O.Q.	<10	mg/kg	10		Pass
	Direct Blue 15 (CAS N. 2429-74-5) (*)	< L.O.Q.	<10	mg/kg	10		Pass
	Direct Blue 218 (CAS N.28407-37-6) (*)	< L.O.Q.	<10	mg/kg	10		Pass
	Direct Brown 95 (CAS N.16071-86-6) (*)	< L.O.Q.	<10	mg/kg	10		Pass
	Direct Red 28 (CAS N. 573-58-0) (*)	< L.O.Q.	<10	mg/kg	10		Pass
	Disperse Blue 1 (CAS N. 2475-45-8) (*)	< L.O.Q.	<10	mg/kg	10		Pass
	Disperse Blue 102 (CAS N. 12222-97-8) (*)	< L.O.Q.	<10	mg/kg	10		Pass
	Disperse Blue 106 (CAS N. 12223-01-7)	< L.O.Q.	<10	mg/kg	10		Pass
	Disperse Blue 124 (CAS N. 61951-51-7)	< L.O.Q.	<10	mg/kg	10		Pass
	Disperse Blue 26 (CAS N. 3860-63-7) (*)	< L.O.Q.	<10	mg/kg	10		Pass
	Disperse Blue 3 (CAS N. 2475-46-9) (*)	< L.O.Q.	<10	mg/kg	10		Pass
	Disperse Blue 35 (CAS N. 12222-75-2)	< L.O.Q.	<10	mg/kg	10		Pass
	Disperse Brown 1 (CAS N. 23355-64-8) (*)	< L.O.Q.	<10	mg/kg	10		Pass
	Disperse Orange 1 (CAS N. 2581-69-3) (*)	< L.O.Q.	<10	mg/kg	10		Pass
	Disperse Orange 11 (CAS N. 82-28-0)	< L.O.Q.	<10	mg/kg	10		Pass
	Disperse Orange 149 (CAS N. 151126-94-2) (*)	< L.O.Q.	<10	mg/kg	10		Pass
	Disperse Orange 3 (CAS N. 730-40-5)	< L.O.Q.	<10	mg/kg	10		Pass
	Disperse Orange 37/59/76 (CAS N. 13301-61-6) (*)	< L.O.Q.	<10	mg/kg	10		Pass
	Disperse Red 1 (CAS N. 2872-52-8)	< L.O.Q.	<10	mg/kg	10		Pass
	Disperse Red 11 (CAS N. 2872-48-2) (*)	< L.O.Q.	<10	mg/kg	10		Pass
	Disperse Red 17 (CAS N. 3179-89-3) (*)	< L.O.Q.	<10	mg/kg	10		Pass
	Disperse Yellow 1 (CAS N. 119-15-3) (*)	< L.O.Q.	<10	mg/kg	10		Pass
	Disperse Yellow 23 (CAS N. 6250-23-3) (*)	< L.O.Q.	<10	mg/kg	10		Pass
	Disperse Yellow 3 (CAS N. 2832-40-8)	< L.O.Q.	<10	mg/kg	10		Pass
	Disperse Yellow 49 (CAS N. 54824-37-2) (*)	< L.O.Q.	<10	mg/kg	10		Pass

Continuing...

 Approved on behalf of BUREAU VERITAS CERTEST srl by:
 Dr. Verena BARTALINI – Laboratory Manager


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COMMITTENT
ONGETTA SRL UNIPERSONALE
VIA DALLA TORRE 5 LEVADA
31047 PONTE DI PIAVE TV
LABORATORY REPORT n° 1939384 of 20/11/2019

TEST METHOD	PARAMETER	RESULT	LIMITS	U.M.	L.O.Q.	NOTES	ASSESS.
	Disperse Yellow 9 (CAS N. 6373-73-5) (*)	< L.O.Q.	<10	mg/kg	10		Pass
	Solvent Yellow 1 (CAS N. 60-09-3) (*)	< L.O.Q.	<10	mg/kg	10		Pass
	Solvent Yellow 14 (CAS N. 842-07-9) (*)	< L.O.Q.	<10	mg/kg	10		Pass
	Solvent Yellow 2 (CAS N. 60-11-7) (*)	< L.O.Q.	<10	mg/kg	10		Pass
	Solvent Yellow 3 (CAS N. 97-56-3) (*)	< L.O.Q.	<10	mg/kg	10		Pass
	Direct Blue 6 (CAS N. 2602-46-2) (*)	< L.O.Q.	<10	mg/kg	10		Pass
	Disperse Blue 7 (CAS N. 3179-90-6) (*)	< L.O.Q.	<10	mg/kg	10		Pass
	Disperse Yellow 39 (CAS N. 12236-29-2) (*)	< L.O.Q.	<10	mg/kg	10		Pass
Textiles - Determination of metals content - Part 1: Determination of metal with microwave digestions - Test Method DIN EN 16711-1:2014 <u>Operating Conditions</u> - Microwave digestion - Determination by ICP-MS analysis (L1)	Other (theoretical) Flame retardants calculated by stoichiometry on total metal content All Borium Coumpounds expressed as total B (*) Boron trioxide (*) Sodium tetraborate (*) Orthoboric acid, sodium salt (*) Sodium perborate (*) Sodium Perborate Monohydrate (*) Sodium Perborate Tetrahydrate (*) Sodium perborate trihydrate (*) Sodium tetraborate (*) Sodium tetraborate decahydrate (*) Sodium tetraborate pentahydrate (*) Boric acid (*) Antimony trioxide (expressed as Sb) (*)	< L.O.Q. < L.O.Q. < L.O.Q. < L.O.Q. < L.O.Q. < L.O.Q. < L.O.Q. < L.O.Q. < L.O.Q. < L.O.Q. < L.O.Q. < L.O.Q. < L.O.Q. < L.O.Q. < L.O.Q. < L.O.Q. 191,3	<50 <50 <50 <50 <50 <50 <50 <50 <50 <50 <50 <50 <50 <50 <50 <50 <50	mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg	50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50		Pass Pass Pass Pass Pass Pass Pass Pass Pass Pass Pass Pass Pass Pass Pass Pass Fail

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VIA DALLA TORRE 5 LEVADA
31047 PONTE DI PIAVE TV
LABORATORY REPORT n° 1939384 of 20/11/2019

TEST METHOD	PARAMETER	RESULT	LIMITS	U.M.	L.O.Q.	NOTES	ASSESS.
Determination of flame retardants - Test method: ISO 17881-1: 2016 <u>Operating Conditions</u> - Solvent extraction - Determination by GC-MS (L1)	Flame retardants						
	Tetrabromo biphenyls (TetraBB) (*)	< L.O.Q.	<10	mg/kg	10		Pass
	Pentabromo biphenyls (PentaBB) (*)	< L.O.Q.	<10	mg/kg	10		Pass
	Hexabromo biphenyls (HexaBB) (*)	< L.O.Q.	<10	mg/kg	10		Pass
	Heptabromo biphenyls (HeptaBB) (*)	< L.O.Q.	<10	mg/kg	10		Pass
	Octabromo biphenyls (OctaBB) (*)	< L.O.Q.	<10	mg/kg	10		Pass
	Nonabromo biphenyls (NonaBB) (*)	< L.O.Q.	<10	mg/kg	10		Pass
	Decabromo biphenyl (DecaBB) (*)	< L.O.Q.	<10	mg/kg	10		Pass
	Monobromo diphenyl ethers (MonoBDE) (*)	< L.O.Q.	<10	mg/kg	10		Pass
	Dibromo diphenyl ethers (DiBDE) (*)	< L.O.Q.	<10	mg/kg	10		Pass
	Tribromo diphenyl ethers (TriBDE) (*)	< L.O.Q.	<10	mg/kg	10		Pass
	Tetra-bromodiphenyl ether (TetraBDE) (*)	< L.O.Q.	<10	mg/kg	10		Pass
	Penta-bromodiphenyl ether (PentaBDE) (*)	< L.O.Q.	<10	mg/kg	10		Pass
	Hexabromo diphenyl ethers (HexaBDE) (*)	< L.O.Q.	<10	mg/kg	10		Pass
	Heptabromo diphenyl ethers (HeptaBDE) (*)	< L.O.Q.	<10	mg/kg	10		Pass
	Octa-bromodiphenyl ether (OctaBDE) (*)	< L.O.Q.	<10	mg/kg	10		Pass
	Nonabromo diphenyl ethers (NonaBDE) (*)	< L.O.Q.	<10	mg/kg	10		Pass
	Decabromodiphenyl ether (DecaBDE) (*)	< L.O.Q.	<10	mg/kg	10		Pass
	Tris (2,3-dibromopropyl)-phosphate (TRIS) (*)	< L.O.Q.	<10	mg/kg	10		Pass
	Exabromocyclododecane (HBCDD) (*)	< L.O.Q.	<10	mg/kg	10		Pass
	Tris(1,3-dichloro-2-propyl)phosphate (TDCPP) (*)	< L.O.Q.	<10	mg/kg	10		Pass
	Monobromo biphenyl (MonoBB)	< L.O.Q.	<10	mg/kg	10		Pass
	Dibromo biphenyls (DiBB)	< L.O.Q.	<10	mg/kg	10		Pass
	Tribromo biphenyl (TriBB)	< L.O.Q.	<10	mg/kg	10		Pass

Continuing...

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LABORATORY REPORT n° 1939384 of 20/11/2019

TEST METHOD	PARAMETER	RESULT	LIMITS	U.M.	L.O.Q.	NOTES	ASSESS.
Determination of flame retardants - Test method: ISO 17881-2: 2016 <u>Operating Conditions</u> - Solvent extraction - Determination by LC-MS (L1)	Flame retardants						
	Tris(2-chloroethyl)phosphate (TCEP) (*)	< L.O.Q.	<10	mg/kg	10		Pass
	Tris (1-aziridinyl)-phosphine oxide (TEPA) (*)	< L.O.Q.	<10	mg/kg	10		Pass
	Tri-o-cresyl phosphate (*)	< L.O.Q.	<10	mg/kg	10		Pass
TRIS, BIS, HBCDD, TBBPA, BBMP & BDBPT in textile - Internal Method: CPSD-AN-00131 <u>Operating Conditions</u> - Solvent extraction - Determination by LC-MS	Tetrabromo-bisphenol A (TBBPA) (*)	< L.O.Q.	<10	mg/kg	10		Pass

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Notes

< L.O.Q.: Not detectable analytically

(1) = If the use of this analytical method has detected 4-aminodiphenyl and/or 2-naphtylamine, according to the current state of knowledge it cannot be unequivocally confirmed without additional information that azo colorants which release amines were used.

MDA =

In case of polyurethane materials are used, e.g. PU foams and coatings and in prints, it cannot be ruled out that certain amines, e.g. 4,4'-methylene-dianiline (MDA, CAS number 101-77-9) are released from the PU component and not from a banned azo colorant.

In case of pigment prints care has to be taken that 4,4'-methylene-dianiline is not released from a source of banned azo colorants but from e.g. a chemical fixing agent.

TDA = In case of polyurethane materials are used, e.g. PU foams and coatings and in prints, it cannot be ruled out that certain amines, e.g. 2,4-toluen-diamine (TDA, CAS 95-80-7) are released from the PU component and not from a banned azo colorant.

In case of non-indication from the client of the category of the material to be tested, the laboratory will identify it and will test it according to the specifics of the defined category.

* The assessment is obtained by the comparison between the Result of the analysis ("Result" column) and the required Limit ("Limit" column).

Limits: Values indicated in the Limits column refer to the requirements stated in the document named in the "Requirements" field of the "Denomination" section

U.M.: Units of Measurement

L.O.Q.: Limit of Quantification

Assess.: Assessment

Pass: the test result is conform to the standard required

Fail: the test result is not conform to the standard required

N/A: it is not possible to carry out the test, or the test result can not be defined as "Pass" or "Fail"

The evaluations of change in color are carried out in accordance with ISO 105-A02 (or GB/T 250 for Chinese market methods), the evaluations of color staining are carried out in accordance with ISO 105-A03 (or GB/T 251 for Chinese market methods).

BWS: Blue Wool Scale

GSR: Grey Scale Rating

L1: test executed at Bureau Veritas Certest srl Laboratory Via Risorgimento, 16- 56028 San Miniato (Pisa)- Italy

L2: test executed at Bureau Veritas Certest srl Laboratory Via f.lli Rosselli, 6- 56028 San Miniato (Pisa)- Italy

The tests marked by an asterisk (*) are not part of the ACCREDIA accreditation.

Opinions and interpretations are not part of the ACCREDIA accreditation.

This report has been issued by Bureau Veritas Certest s.r.l. quality system and well documented by our own quality manual and related procedures. Results reported have been achieved applying rules and/or technical procedures specified in the following pages and they refer solely to the samples received and tested in our laboratory not to the batch which they represent. The sample has been analyzed the way it has been received from the client. Reproduction of this document is allowed only with an exact copy of the original. Partial reproduction of this documents allowed subject to Bureau Veritas Certest s.r.l. approval and is registered with the referring report number. Only the original report is valid and partial re production of this document is allowed subject to Bureau Veritas Certest s.r.l. approval and is registered with the referring report number. The use of this report in a judicial process must be expressly authorized by Certest srl. The records related to the analyzes carried out are retained for a period of 48 months. Samples tested are stored for three months if not otherwise required or agreed with the Client. The expanded uncertainty (U) is calculated with a coverage factor k=2 for a confidence level of 95% and a number of degrees of freedom greater than or equal to 10. In case of qualitative tests, the expanded uncertainty (U) is not applicable, so the reference column will be populated with "N/A".

Whenever the supplied sample amount is not enough to perform all the trials required by the Method, the laboratory will perform the higher number of tests with the provided material.

Decision rule: For analyses subjected to visual assessment and colour fastness tests the Laboratory defines the Pass/Fail not taking into account the uncertainty associated to the measurement result. The uncertainty associated to the test Method is available upon specific request of the Client.

For all other analyses, where the decision rule is not defined within the test method, the result is assessed as a Fail whenever it overcomes the LV (Limit Value) beyond a reasonable doubt, also taking into account the expanded uncertainty (U), calculated at a confidence level of 95% applying the Guard Band defined as the quantity "g" obtained from $g=k \cdot \text{UrdP}$

UrdP=standard uncertainty of the measurement result.

k=coverage factor with a confidence level of 95%, unilateral type equal to 1,645.

Information shown in the "Denomination" field, related to the sample description, are reported as provided by the Client within the Test Request Form.

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Approved on behalf of BUREAU VERITAS CERTEST srl by:
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