



LANARTEX S.r.l.

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LAB N° 0572 L

MESSRS:
TEXMODA TESSUTI SRL

Via dei Pioppi 18/22
59100 PRATO (PO)
IT

REPORT NR 230000177-001
REPORT DATE 23/01/2023
ACCEPTANCE DATE 17/01/2023
START TEST DATE 23/01/2023
END TEST DATE 23/01/2023
SAMPLING BY CUSTOMER

TEST REPORT

Item Name: ART. 80874/GARZ/SP

Material type: Orthogonal fabric
Intended use: Clothing

Declared Composition:

Viscose - VI	69,0 %
Wool - WO	16,0 %
Virgin Wool - WV	13,0 %
Elastane - EA	2,0 %



Chief of Chemical Dept.
Martinucci Marco

Manager Director
Patrizia Rosati

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TEST LIST

TEST	METHOD	ACCREDIA
Research and Dosage of Alkylphenols-ethoxylates (APEO's) <i>Ricerca e Dosaggio degli Alchilifenoli-etossilati (APEO's)</i>	ISO 18254-1:2016	
Detection of aromatic amines derived from azo colorants <i>Ricerca di ammine aromatiche derivate da azocoloranti</i>	UNI EN ISO 14362-1:2017	
Research and dosage of phtalate content <i>Ricerca e dosaggio del contenuto di ftalati</i>	UNI EN ISO 14389:2014	
Research and dosage of polyfluorinated compounds (PFC's) <i>Ricerca e dosaggio dei composti polifluorurati (PFC's)</i>	UNI CEN/TS 15968:2010	
Research and dosage of heavy metals <i>Ricerca e dosaggio dei metalli pesanti</i>	EN 1122:2001	*
Research and dosing of Chrome VI <i>Ricerca e dosaggio del Cromo VI</i>	BS 6810-1:1987 sez. 4 e 8.5	

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RESULTS

	M.U.	RESULT
ISO 18254-1:2016		
Research and Dosage of Alkylphenols-ethoxylates (APEO's)		
<i>Ricerca e Dosaggio degli Alchilfenoli-etossilati (APEO's)</i>		

Nonylphenols-ethoxylated (NPEO) [37205-87-1, 20427-84-3, 68412-54-4]	mg/kg	N.D.
<i>Nonilfenoli-etossilati (NPEO) [37205-87-1, 20427-84-3, 68412-54-4]</i>		
Octylphenols-ethoxylated (OPEO) [9036-19-5, 9002-93-1, 2315-61-9, 2315-67-5]	mg/kg	N.D.
<i>Octilfenoli-etossilati (OPEO) [9036-19-5, 9002-93-1, 2315-61-9, 2315-67-5]</i>		
Total content of Alkylphenols-ethoxylated (APEO's)	mg/kg	N.D.
<i>Contenuto totale di Alchilfenoli-etossilati (APEO's)</i>		

NOTES

N.D. - Not detectable; Limit of Detection (LOD): 1,0 mg/kg; Analytical instrument: LC-MSMS.

N.D. - Non rilevabile; Limite di rilevabilità (LOD): 1,0 mg/kg; Strumentazione analitica: LC-MSMS.

	M.U.	RESULT
UNI EN ISO 14362-1:2017		
Detection of aromatic amines derived from azo colorants		
<i>Ricerca di ammine aromatiche derivate da azocoloranti</i>		

4-Aminodiphenyl [92-67-1]	mg/kg	N.D.
<i>4-Amminodifenile [92-67-1]</i>		
Benzidine [92-87-5]	mg/kg	N.D.
<i>Benzidina [92-87-5]</i>		
4-Chloro-o-toluidine [95-69-2]	mg/kg	N.D.
<i>4-Cloro-o-toluidina [95-69-2]</i>		
2-Naphthylamine [91-59-8]	mg/kg	N.D.
<i>2-Naftilammina [91-59-8]</i>		
o-Aminoazotoluene [97-56-3]	mg/kg	N.D.
<i>o-Aminoazotoluene [97-56-3]</i>		
2-Amino-4-Nitrotoluene [99-55-8]	mg/kg	N.D.
<i>2-Ammino-4-Nitrotoluene [99-55-8]</i>		
p-Chloroaniline [106-47-8]	mg/kg	N.D.
<i>p-Cloroanilina [106-47-8]</i>		
2,4-Diaminoanisole [615-05-4]	mg/kg	N.D.
<i>2,4-Diamminoanisolo [615-05-4]</i>		
4,4'-Diaminodiphenylmethane [101-77-9]	mg/kg	N.D.
<i>4,4'-Diamminodifenilmetano [101-77-9]</i>		
3,3'-Dichlorobenzidine [91-94-1]	mg/kg	N.D.
<i>3,3'-Diclorobenzidina [91-94-1]</i>		
3,3'-Dimethoxybenzidine [119-90-4]	mg/kg	N.D.
<i>3,3'-Dimettossibenzidina [119-90-4]</i>		

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3,3'-Dimethylbenzidine [119-93-7]	mg/kg	N.D.
<i>3,3'-Dimetilbenzidina [119-93-7]</i>		
3,3'-Dimethyl-4,4'-Diammindifenilmetane [838-88-0]	mg/kg	N.D.
<i>3,3'-Dimetil-4,4'-Diammindifenilmetano [838-88-0]</i>		
p-Cresidine [120-71-8]	mg/kg	N.D.
<i>p-Cresidina [120-71-8]</i>		
4,4'-Methylene-bis-(2-Chloroaniline) [101-14-4]	mg/kg	N.D.
<i>4,4'-Metilen-bis-(2-Cloroanilina) [101-14-4]</i>		
4,4'-Oxydianiline [101-80-4]	mg/kg	N.D.
<i>4,4'-Ossidianilina [101-80-4]</i>		
4,4'-Thiodianiline [139-65-1]	mg/kg	N.D.
<i>4,4'-Tiodianilina [139-65-1]</i>		
o-Toluidine [95-53-4]	mg/kg	N.D.
<i>o-Toluidina [95-53-4]</i>		
2,4-Toluylenediamine [95-80-7]	mg/kg	N.D.
<i>2,4-Toluilendiammina [95-80-7]</i>		
2,4,5-Trimethylaniline [137-17-7]	mg/kg	N.D.
<i>2,4,5-Trimetilnilina [137-17-7]</i>		
2,4-Xylidine [95-68-1]	mg/kg	N.D.
<i>2,4-Xilidina [95-68-1]</i>		
2,6-Xylidine [87-62-7]	mg/kg	N.D.
<i>2,6-Xilidina [87-62-7]</i>		
o-Anisidine [90-04-0]	mg/kg	N.D.
<i>o-Anisidina [90-04-0]</i>		
4-Aminoazobenzene [60-09-3]	mg/kg	N.D.
<i>4-Amminoazobenzene [60-09-3]</i>		
4-Chloro-o-toludinium chloride [3165-93-3] (*)	mg/kg	N.D.
<i>4-cloro-o-toludinio cloruro [3165-93-3] (*)</i>		
2-Naphthylammoniumacetate [553-00-4] (*)	mg/kg	N.D.
<i>2-naftilammonio acetato [553-00-4] (*)</i>		
4-Methoxy-m-phenylene diammonium sulphate [39156-41-7] (*)	mg/kg	N.D.
<i>4-metossi-m-fenilene diammonio solfato [39156-41-7] (*)</i>		
2,4,5-Trimethylaniline hydrochloride [21436-97-5] (*)	mg/kg	N.D.
<i>2,4,5-trimetilanilina cloridrato [21436-97-5] (*)</i>		

NOTES

N.D. - Not detectable; Instrument: LC-MS; Limit of Detection (LOD): 5 mg/kg each.
According to the declared composition it has been performed an extraction by Xylene on synthetic fibers, instead this extraction has not been performed on natural fibers.
Results of arylamine salts (CAS 3165-93-3, 553-00-4, 39156-41-7 and 21436-97-5) were back calculated based on the determination of their amines.

N.D. - Non rilevabile; Strumento: LC-MS. Limite di rilevabilità (LOD): 5 mg/kg per singola ammina.
Sulla base della composizione dichiarata relativamente alle fibre sintetiche è stata eseguita un'estrazione in Xylene, per fibre naturali tale estrazione non è stata invece eseguita.
I risultati dei sali delle arylamine (CAS 3165-93-3, 553-00-4, 39156-41-7 e 21436-97-5) sono stati calcolati basandosi sulla determinazione delle ammine corrispondenti.

M.U.

RESULT

UNI EN ISO 14389:2014

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REPORT DATE**230000177-001**
23/01/2023**Research and dosage of phtalate content***Ricerca e dosaggio del contenuto di ftalati***Samples preparation***Preparazione campioni*

lab

Correct mass*Massa corretta*

g

0.000

Total mass*Massa totale*

g

0.000

Butylbenzylphthalate (BBP) [85-68-7]*Butylbenzylphthalate (BBP) [85-68-7]*

µg/g

N.D.**Bis(2-methoxyethyl)phthalate (DMEP) [117-82-8] (*)***Bis(2-methoxyethyl)phthalate (DMEP) [117-82-8] (*)*

µg/g

N.D.**Bis(2-ethylhexyl)phthalate (DEHP) [117-81-7]***Bis(2-ethylhexyl)phthalate (DEHP) [117-81-7]*

µg/g

N.D.**Di-n-butylphthalate (DBP) [84-74-2]***Di-n-butylphthalate (DBP) [84-74-2]*

µg/g

N.D.**Diisobutylphthalate (DIBP) [84-69-5] (*)***Diisobutylphthalate (DIBP) [84-69-5] (*)*

µg/g

N.D.**Diisodecylphthalate (DIDP) [26761-40-0]***Diisodecylphthalate (DIDP) [26761-40-0]*

µg/g

N.D.**Di-n-octylphthalate (DNOP) [117-84-0]***Di-n-octylphthalate (DNOP) [117-84-0]*

µg/g

N.D.**Diamylphthalate (DPP) [131-18-0] (*)***Diamylphthalate (DPP) [131-18-0] (*)*

µg/g

N.D.**Diisoheptylphthalate (DIHP) [71888-89-6] (*)***Diisoheptylphthalate (DIHP) [71888-89-6] (*)*

µg/g

N.D.**Diisononylphthalate (DINP) [28553-12-0]***Diisononylphthalate (DINP) [28553-12-0]*

µg/g

N.D.**1,2-Benzenedicarboxylic acid, di-C7-C11 linear and branched alkyl ester (DNHUP) [68515-42-4] (*)***Acido 1,2-benzendicarbossilico, di-C7-C11 alchil estere lineare e ramificato (DNHUP) [68515-42-4] (*)*

µg/g

N.D.**N-pentyl-isopentylphthalate (PiPP) [776297-69-9] (*)***N-pentyl-isopentylphthalate (PiPP) [776297-69-9] (*)*

µg/g

N.D.**Diethylphthalate (DEP) [84-66-2] (*)***Diethylphthalate (DEP) [84-66-2] (*)*

µg/g

N.D.**1,2-Benzenedicarboxylic acid, linear and branched dipentyl ester (PBLB) [84777-06-0] (*)***Acido 1,2-benzendicarbossilico, dipentil estere lineare e ramificato (PBLB) [84777-06-0] (*)*

µg/g

N.D.**Dinonyl phthalate (DNP) [84-76-4] (*)***Dinonyl ftalato (DNP) [84-76-4] (*)*

µg/g

N.D.**Diisooctylphthalate (DiOP) [27554-26-3] (*)***Diisooctylphthalate (DiOP) [27554-26-3] (*)*

µg/g

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Dihexylphthalate (DHP) [84-75-3] (*)		N.D.
<i>Dihexylphthalate (DHP) [84-75-3] (*)</i>	µg/g	
Diisopentylphthalate (DiPP) [605-50-5] (*)		N.D.
<i>Diisopentylphthalate (DiPP) [605-50-5] (*)</i>	µg/g	

NOTES

N.D. - Not detectable; Limit of detection (LOD): 50,0 µg/g; Instrument: GC-MS.

N.D. - Non rilevabile; Limite di rilevabilità (LOD): 50,0 µg/g; Strumentazione analitica: GC-MS.

	M.U.	RESULT
UNI CEN/TS 15968:2010		
Research and dosage of polyfluorinated compounds (PFC's)		
<i>Ricerca e dosaggio dei composti polifluorurati (PFC's)</i>		
Heptafluorobutyric acid (PFBA) [375-22-4] (*)		N.D.
<i>Heptafluorobutyric acid (PFBA) [375-22-4] (*)</i>	mg/kg	
Perfluoropentanoic acid (PFPeA) [2706-90-3] (*)		N.D.
<i>Perfluoropentanoic acid (PFPeA) [2706-90-3] (*)</i>	mg/kg	
Undecafluorohexanoic acid (PFHxA) [307-24-4] (*)		N.D.
<i>Undecafluorohexanoic acid (PFHxA) [307-24-4] (*)</i>	mg/kg	
Perfluoroheptanoic acid (PFHpA) [375-85-9] (*)		0.004
<i>Perfluoroheptanoic acid (PFHpA) [375-85-9] (*)</i>	mg/kg	
Nonafluorobutane-1-sulfonic acid (PFBS) [375-73-5] (*)		N.D.
<i>Nonafluorobutane-1-sulfonic acid (PFBS) [375-73-5] (*)</i>	mg/kg	
Tridecafluorohexane-1-sulfonic acid (PFHxS) [3871-99-6] (*)		N.D.
<i>Tridecafluorohexane-1-sulfonic acid (PFHxS) [3871-99-6] (*)</i>	mg/kg	
Tricosafluorododecanoic acid (PFDoA) [307-55-1] (*)		N.D.
<i>Tricosafluorododecanoic acid (PFDoA) [307-55-1] (*)</i>	mg/kg	
Perfluorodecanoic acid (PFDA) [335-76-2] (*)		N.D.
<i>Perfluorodecanoic acid (PFDA) [335-76-2] (*)</i>	mg/kg	
4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,11 Heptadecafluoroundecanoic acid (4HPFUnA) [34598-33-9] (*)		N.D.
<i>4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,11 Heptadecafluoroundecanoic acid (4HPFUnA) [34598-33-9] (*)</i>	mg/kg	
Perfluorononanoic acid (PFNA) [375-95-1] (*)		N.D.
<i>Perfluorononanoic acid (PFNA) [375-95-1] (*)</i>	mg/kg	
Perfluorotetradecanoic acid (PFTeA) [376-06-7] (*)		N.D.
<i>Perfluorotetradecanoic acid (PFTeA) [376-06-7] (*)</i>	mg/kg	
Sulfluramid (N-Et-FOSA) [4151-50-2]		0.007
<i>Sulfluramid (N-Et-FOSA) [4151-50-2]</i>	mg/kg	
Perfluorotridecanoic acid (PFTrA) [72629-94-8] (*)		N.D.
<i>Perfluorotridecanoic acid (PFTrA) [72629-94-8] (*)</i>	mg/kg	
Perfluorooctanesulphonamide (PFOSA) [754-91-6]		N.D.
<i>Perfluorooctanesulphonamide (PFOSA) [754-91-6]</i>	mg/kg	
Perfluorooctane sulfonic acid (PFOS) [1763-23-1]		N.D.
<i>Perfluorooctane sulfonic acid (PFOS) [1763-23-1]</i>	mg/kg	

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Perfluoro (3,7-dimethyloctanoic acid) (PF-3,7-DMOA) [172155-07-6] (*)

Perfluoro (3,7-dimethyloctanoic acid) (PF-3,7-DMOA) [172155-07-6] ()*

mg/kg

N.D.

Perfluoroundecanoic acid (PFUnA) [2058-94-8] (*)

Perfluoroundecanoic acid (PFUnA) [2058-94-8] ()*

mg/kg

N.D.

N-MeFOSA - N-Methylperfluoro-1-octanesulfonamide [31506-32-8]

N-MeFOSA - N-Methylperfluoro-1-octanesulfonamide [31506-32-8]

mg/kg

N.D.

N-MeFOSE - 2-(N-methylperfluoro-1-octanesulfonamido)-ethanol [24448-09-7] (*)

N-MeFOSE - 2-(N-methylperfluoro-1-octanesulfonamido)-ethanol [24448-09-7] ()*

mg/kg

N.D.

N-ethyl-N-(2-hydroxyethyl) perfluorooctylsulfonamide (N-Et-FOSE) [1691-99-2] (*)

N-ethyl-N-(2-hydroxyethyl) perfluorooctylsulfonamide (N-Et-FOSE) [1691-99-2] ()*

mg/kg

N.D.

Pentadecafluorooctanoic acid (PFOA) [335-67-1] (*)

Pentadecafluorooctanoic acid (PFOA) [335-67-1] ()*

mg/kg

N.D.

NOTES

N.D. - Not detectable; Detection limit (LOD): 0,125 µg/m²; Limit of quantification (LOQ): 0,5 µg/m².
Instrument: LC-MSMS.

N.D. - Non rilevabile; Limite di rilevabilità (LOD): 0,125 µg/m²; Limite di quantificazione (LOQ): 0,5 µg/m². Strumentazione: LC-MSMS.

M.U.

RESULT

EN 1122:2001

Research and dosage of heavy metals

Ricerca e dosaggio dei metalli pesanti

Cadmium (Cd) (*)

Cadmio (Cd) ()*

mg/kg

N.D.

Lead (Pb)

Piombo (Pb)

mg/kg

N.D.

Mercury (Hg) (*)

Mercurio (Hg) ()*

mg/kg

N.D.

NOTES

Detection method: atomic emission spectroscopy (ICP-OES); N.D.: Not detectable; Limit of detection: 1,0 mg/kg.

The test was conducted at the request of the customer in derogation from standard to search the presence of different heavy metals from cadmium.

Metodo di determinazione: Spettroscopia di emissione atomica (ICP-OES); N.R.: Non rilevabile; Limite di rilevabilità: 1,0 mg/kg.

Come da esplicita richiesta del committente ed in deroga alla norma, il test è stato condotto per verificare la presenza di metalli pesanti diversi dal cadmio.

M.U.

RESULT

BS 6810-1:1987 sez. 4 e 8.5

Research and dosing of Chrome VI

Ricerca e dosaggio del Cromo VI

Chromium VI (Cr VI)

Cromo VI (Cr VI)

mg/kg

N.D.

NOTES

N.D. - Not detectable; Limit of Detection (LOD): 0,5 mg/kg.

N.D. - Non rilevabile; Limite di rilevabilità (LOD): 0,5 mg/kg.

END OF REPORT

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