



**CENTRO TESSILE  
COTONIERO e  
ABBIGLIAMENTO S.p.A.**

P.ZZA SANT'ANNA, 2  
21052 BUSTO ARSIZIO (VA)  
TEL. 0331-696711 FAX 0331-680056  
E-Mail: info@centrocot.it  
Web Site: www.centrocot.it  
C.F. e P.IVA 01724710122

LABORATORY

**Test Report**

**1001678**

TR

Page n. 1 of 7

Customer

**COMEC ITALIA S.r.l.**  
Piazzale del Lavoro 149  
21044 CAVARIA VA

Sample/s receiving date **2009/01/16**

Submission receipt date **2010/02/04**

### Products and identification

**1001678-01** Fabric, colour white, printed with Your ink Series PLTTEXA black color.

**Sampling carried out by the customer**

**English translation of our Test Report n. 0900388 of 18th February 2009.**

### This Test Report consists of the following results

Code	Test
60015	Textiles, Accessories. Heavy metals in liquid extracts on outsourced dyed products (Sb, Cu, Pb, Ni, Co, Cd, Cr tot)
60210	Textiles, Accessories. Phenols (chlorophenols and OPP)
60219	Textiles, Accessories. Aromatic amines derived from azo colorants
60250	Textiles, Accessories. Odour test
60280	Textiles, Accessories. Colour fastness to water
60320	Textiles, Accessories. Colour fastness to perspiration
60320	Textiles, Accessories. Colour fastness to perspiration
60321	Textiles, Accessories. Colour fastness to saliva and perspiration
60351	Textiles, Accessories. Colour fastness to dry rubbing
60411	Textiles, Accessories. Free and partially releasable formaldehyde
60470	Textiles, Accessories. pH-value of the aqueous extract
60700	Textiles, Accessories. Tin organic compounds

Results contained in this report refer only to tested manufacts.  
A partial reproduction of this report must be authorized from Centro Tessile Cotoniero e Abbigliamento laboratory.

Issue date <b>08 March 2010</b>	Ecological Laboratory Responsible Chiara Salmoiraghi <i>Chiara Salmoiraghi</i>	Ecological Tests and Certifications Responsible dr. Pierre lerardi <i>Pierre lerardi</i>
------------------------------------	--	---

Institute member of National Registry Office of Research code E0190Y27 and of the Highly Qualified Laboratories Association according to law n.46 (02/17th/1982) and authorized to carry out applied research programmes by the Ministry of University and Scientific Research and Technology.



P.ZZA SANT'ANNA, 2  
21052 BUSTO ARSIZIO (VA)  
TEL. 0331-696711 FAX 0331-680056  
E-Mail: info@centrocot.it  
Web Site: www.centrocot.it  
C.F. e P.IVA 01724710122

LABORATORY

**60015 Textiles, Accessories. Heavy metals in liquid extracts on outsourced dyed products (Sb, Cu, Pb, Ni, Co, Cd, Cr tot)**

Test began on 2009/01/27  
Test ended on 2009/01/28

**Modality**

Test method Oeko-Tex Standard 201 M-10:2001 + M-11:2001  
Procedure Extraction with acid perspiration solution, according to UNI EN ISO 105-E04 and quantitative determination by optical emission spectrometry

Test equipment ICP Optical

Number of performed tests 2

Limit values Oeko-Tex Standard 100 Edition 01/2008

**Results for sample 1001678-01**

		RESULTS	LIMIT VALUES
Lead	ppm	not detectable	<=0.2
Cadmium	ppm	not detectable	<=0.1
Chromium (total)	ppm	not detectable	<=1.0
Cobalt	ppm	0.1	<=1.0
Copper	ppm	0.2	<=25.0
Nickel	ppm	not detectable	<=1.0
Antimony	ppm	0.1	<=30.0

**60210 Textiles, Accessories. Phenols (chlorophenols and OPP)**

Test began on 2009/01/28  
Test ended on 2009/01/29

**Modality**

Test method Oeko-Tex Standard 201 M-7:2001  
Procedure Extraction with aqueous solution, acetylation and quantitative determination by gaschromatography

Test equipment Gascromatograph with mass selective detector

Instrument detection limit 0.01 mg/kg

Working range 0.02 - 2.00 mg/kg

Limit values Oeko-Tex Standard 100 Edition 01/2008

**Results for sample 1001678-01**

		RESULTS	LIMIT VALUES
pentachlorophenol CAS Nr 87-86-5	ppm	not detectable	<=0.05
o-phenylphenol CAS Nr 90-43-7	ppm	not detectable	<=50.0
2,3,5,6-tetrachlorophenol CAS Nr 935-95-5	ppm	not detectable	
2,3,4,6-tetrachlorophenol CAS Nr 58-90-2	ppm	not detectable	
2,3,4,5-tetrachlorophenol CAS Nr 4901-51-3	ppm	not detectable	
Total content (tetrachlorophenols)	ppm	not detectable	<=0.05

**60219 Textiles, Accessories. Aromatic amines derived from azo colorants**

Test began on 2009/02/03  
Test ended on 2009/02/04

**Modality**

Test method Oeko-Tex Standard 201 M-3:2006 + UNI EN 14362-1:2004  
Procedure Dyestuff reduction in aqueous buffer (pH 6); extraction with t-butyl-methylether, concentration and quantitative determination by gaschromatography

Test equipment Gascromatograph with mass selective detector

Working range 20 - 100 mg/kg



LABORATORY

**Test Report**

**1001678**

TR

Page n. 3 of 7

Limit values

Oeko-Tex Standard 100 Edition 01/2008

**Results for sample 1001678-01**

**Amines belonging to MAK III A1 and III A2 groups**

	RESULTS	LIMIT VALUES
benzidine CAS Nr 92-87-5	not detectable	not detectable
4-chloro-o-toluidine CAS Nr 95-69-2	not detectable	not detectable
2-naphtylamine CAS Nr 91-59-8	not detectable	not detectable
4-aminobiphenyl CAS Nr 92-67-1	not detectable	not detectable
o-tolidine (3,3'-dimethylbenzidine) CAS Nr 119-93-7	not detectable	not detectable
o-dianisidine (3,3'-dimethoxybenzidine) CAS Nr 119-90-4	not detectable	not detectable
4-chloroaniline CAS Nr 106-47-8	not detectable	not detectable
o-toluidine CAS Nr 95-53-4	not detectable	not detectable
3,3'-dichlorobenzidine CAS Nr 91-94-1	not detectable	not detectable
o-aminoazotoluene CAS Nr 97-56-3	not detectable	not detectable
2-amino-4-nitrotoluene CAS Nr 99-55-8	not detectable	not detectable
2,4-diaminotoluene CAS Nr 95-80-7	not detectable	not detectable
2,4-diaminoanisole (4-methoxy-1,3-benzenediamine) CAS Nr 615-05-4	not detectable	not detectable
4,4'-diaminodiphenylmethane CAS Nr 101-77-9	not detectable	not detectable
3,3'-dimethyl-4,4'-diaminodiphenylmethane CAS Nr 838-88-0	not detectable	not detectable
3,3'-dichloro-4,4'-diaminodiphenylmethane CAS Nr 101-14-4	not detectable	not detectable
4,4'-diaminodiphenyl ether CAS Nr 101-80-4	not detectable	not detectable
4,4'-diaminodiphenyl sulphide CAS Nr 139-65-1	not detectable	not detectable
2,4,5-trimethylaniline CAS Nr 137-17-7	not detectable	not detectable
p-cresidine (2-methoxy-5-methylaniline) CAS Nr 120-71-8	not detectable	not detectable
o-anisidine (2-methoxyaniline) CAS Nr 90-04-0	not detectable	not detectable
2,4-xilidine CAS Nr 95-68-1	not detectable	not detectable
2,6-xilidine CAS Nr 87-62-7	not detectable	not detectable
4-aminoazobenzene CAS Nr 60-09-3	not detectable	not detectable

**Notes**

**60250 Textiles, Accessories. Odour test**

Test began on 2009/01/26  
Test ended on 2009/01/26

**Modality**

Test method Oeko-Tex Standard 200:2008  
Procedure Sensorial-olfactory odour test  
Limit values Oeko-Tex Standard 100 Edition 01/2008

**Results for sample 1001678-01**

RESULTS	LIMIT VALUES
no abnormal odour	no abnormal odour

**60280 Textiles, Accessories. Colour fastness to water**

Test began on 2009/02/16  
Test ended on 2009/02/17

**Modality**

Test method Oeko-Tex Standard 201 M-9-C:2005 + UNI EN ISO 105 E01:1998  
Test equipment air circulating oven and Perspiration Tester  
Test solution deionized water





**LABORATORY**

Test temperature (37±2)°C  
 Test duration 4 h  
 Applied pressure 12.5 kPa  
 Final drying air  
 Specimens composed  
 Number of specimens 1  
 Limit values Oeko-Tex Standard 100 Edition 01/2008

**Results for sample 1001678-01**

		RESULTS	LIMIT VALUES
Staining on adjacent fabric of polyamide	grade	5	>=3
Staining on adjacent fabric of cotton	grade	5	>=3
Staining on adjacent fabric of wool	grade	5	>=3
Staining on adjacent fabric of polyester	grade	5	>=3
Staining on adjacent fabric of acetate	grade	5	>=3
Staining on adjacent fabric of acrylic	grade	5	>=3

**Notes**

**60320 Textiles, Accessories. Colour fastness to perspiration**

**ACID PERSPIRATION**

Test began on 2009/02/16  
 Test ended on 2009/02/17

**Modality**

Test method Oeko-Tex Standard 201 M-9-B:2005 + UNI EN ISO 105 E04:1998  
 Test equipment air circulating oven and Perspiration Tester  
 Test solution artificial acid perspiration  
 pH of the solution (5.50±0.05)  
 Bath ratio 50:1  
 Test temperature (37±2)°C  
 Test duration 4 h  
 Applied pressure 12.5 kPa  
 Final drying air  
 Specimens composed  
 Number of specimens 1  
 Limit values Oeko-Tex Standard 100 Edition 01/2008

**Results for sample 1001678-01**

		RESULTS	LIMIT VALUES
Staining on adjacent fabric of polyamide	grade	5	>=3-4
Staining on adjacent fabric of cotton	grade	5	>=3-4
Staining on adjacent fabric of wool	grade	5	>=3-4
Staining on adjacent fabric of polyester	grade	5	>=3-4
Staining on adjacent fabric of acetate	grade	5	>=3-4
Staining on adjacent fabric of acrylic	grade	5	>=3-4

**Notes**

**60320 Textiles, Accessories. Colour fastness to perspiration**

**ALKALINE PERSPIRATION**

Test began on 2009/02/16  
 Test ended on 2009/02/17



LABORATORY

**Test Report**

**1001678**

TR

Page n. 5 of 7

**Modality**

Test method Oeko-Tex Standard 201 M-9-B:2005 + UNI EN ISO 105 E04:1998  
Test equipment air circulating oven and Perspiration Tester  
Test solution artificial alkaline perspiration  
pH of the solution (8.00±0.05)  
Bath ratio 50:1  
Test temperature (37±2)°C  
Test duration 4 h  
Applied pressure 12.5 kPa  
Final drying air  
Specimens composed  
Number of specimens 1  
Limit values Oeko-Tex Standard 100 Edition 01/2008

**Results for sample 1001678-01**

		RESULTS	LIMIT VALUES
Staining on adjacent fabric of polyamide	grade	5	>=3-4
Staining on adjacent fabric of cotton	grade	5	>=3-4
Staining on adjacent fabric of wool	grade	5	>=3-4
Staining on adjacent fabric of polyester	grade	5	>=3-4
Staining on adjacent fabric of acetate	grade	5	>=3-4
Staining on adjacent fabric of acrylic	grade	5	>=3-4

**Notes**

**60321 Textiles, Accessories. Colour fastness to saliva and perspiration**

**Colour fastness to saliva and perspiration**

Test began on 2009/02/16  
Test ended on 2009/02/17

**Modality**

Test method Oeko-Tex Standard 201 M-9-A:2006  
Test equipment Thermostatic heater  
Test solution Saliva and artificial perspiration according to method  
Check specimen Cotton  
Test temperature (40±2)°C  
Test duration 2 h  
Limit values Oeko-Tex Standard 100 Edition 01/2008

**Results for sample 1001678-01**

	RESULTS	LIMIT VALUES
Staining on adjacent fabric of cotton	fast	fast

**Notes**

**60351 Textiles, Accessories. Colour fastness to dry rubbing**

Test began on 2009/02/16  
Test ended on 2009/02/17

**Modality**

Test method Oeko-Tex Standard 201 M-9-D:2002 + UNI EN ISO 105 X12:2003  
Standard atmosphere for conditioning > 4 h a (20±2)°C - (65±2)% U.R.  
Standard atmosphere for testing (20±2)°C - (65±2)% R.H.  
Test equipment Crockmeter



P.ZZA SANT'ANNA, 2  
21052 BUSTO ARSIZIO (VA)  
TEL. 0331-696711 FAX 0331-680056  
E-Mail: info@centrocot.it  
Web Site: www.centrocot.it  
C.F. e P.IVA 01724710122

**LABORATORY**

Rubbing finger size (16±0.1) mm  
Downward force (9±0.2) N  
Rubbing cycles 10  
Number of specimens 1  
Limit values Oeko-Tex Standard 100 Edition 01/2008

**Results for sample 1001678-01**

		RESULTS	LIMIT VALUES
Staining on adjacent fabric of cotton	grade	5	>=4

**Notes**

**60411 Textiles, Accessories. Free and partially releasable formaldehyde**

Test began on 2009/01/29  
Test ended on 2009/01/30

**Modality**

Test method Oeko-Tex Standard 201 M-8:2001 + JIS L 1041:1983  
Test equipment Spectrophotometer UV-VIS  
Date of arrival of the samples in the laboratory 2009/01/26  
Delivered samples not sealed  
Sample stored in the laboratory sealed  
Number of performed tests 2  
Limit values Oeko-Tex Standard 100 Edition 01/2008

**Results for sample 1001678-01**

		RESULTS	LIMIT VALUES
Formaldehyde content	ppm	not detectable	not detectable

**Notes**

**60470 Textiles, Accessories. pH-value of the aqueous extract**

Test began on 2009/01/27  
Test ended on 2009/01/27

**Modality**

Test method Oeko-Tex Standard 201M-1:2006 + UNI EN ISO 3071:2006  
Test equipment pH-meter with combined glass electrode  
Number of measured specimens 2  
pH of KCl solution 0.1 M 5.7  
Temperature of solution 25°C  
Limit values Oeko-Tex Standard 100 Edition 01/2008

**Results for sample 1001678-01**

		RESULTS	LIMIT VALUES
Average of the 2nd and 3rd extract	pH	6.5	4.0-7.5

**60700 Textiles, Accessories. Tin organic compounds**

Test began on 2009/02/04  
Test ended on 2009/02/05

**Modality**

Test method Oeko-Tex Standard 201 M-17:2001  
Procedure Extraction with acid perspiration solution, derivatization and quantitative determination by gaschromatography  
Test equipment Gaschromatograph with mass selective detector



**CENTRO TESSILE  
COTONIERO e  
ABBIGLIAMENTO S.p.A.**

P.ZZA SANT'ANNA, 2  
21052 BUSTO ARSIZIO (VA)  
TEL. 0331-696711 FAX 0331-680056  
E-Mail: info@centrocot.it  
Web Site: www.centrocot.it  
C.F. e P.IVA 01724710122

LABORATORY

**Test Report**

**1001678**

TR

Page n. 7 of 7

Limit values

Oeko-Tex Standard 201 Edition 01/2008

**Results for sample 1001678-01**

		RESULTS	LIMIT VALUES
TBT	ppm	not detectable	<=0.5
DBT	ppm	not detectable	<=1.0
TPhT	ppm	not detectable	<=0.5

End of Test Report