

TONGXIANG GELIN TEXTILE CO.,LTD
NO.3852 EAST HUANCHENG RD, WUTONG INDUSTRIAL ZONE, TONGXIANG, ZHEJIANG

The following sample(s) was/were submitted and identified on behalf of the client as:

Sample Description : A PIECE OF VELVET FABRIC NAMED ZA-015 IN CAMEL OF 100% POLYESTER FOR UPHOLSTERY USE
Style No. : ZA-015
Composition : 100% POLYESTER
Color : CAMEL
End Use : UPHOLSTERY
Country of Origin : China

Proposed Care Instruction : 

Test Performed : Selected test(s) as requested by applicant
* * * * *

Sample Receiving Date : Aug 09, 2019
Testing Period : Aug 12, 2019 - Aug 16, 2019

Test Result(s) : Unless otherwise stated the results shown in this test report refer only to the sample(s) tested. For further details, please refer to the following page(s).

Signed for and on behalf of
SGS-CSTC Standards Technical Services (Shanghai) Co. Ltd.

Hattie Chen

Hattie Chen
Account Executive



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Test Result

Dimensional Stability To Drycleaning

(ISO 3759:2011/ISO 3175-2:2017: Normal materials.)

After 1 dryclean

- Lengthwise (%) -0.2
- Widthwise (%) -0.6

Remarks: (+) Means extension (-) Means shrinkage

Colour Fastness To Drycleaning

(ISO 105-D01:2010)

Change in shade	4-5*
Staining on multi-fiber stripe	
Acetate	4-5
Cotton	4-5
Nylon	4-5
Polyester	4-5
Acrylic	4-5
Wool	4-5

*color change 3-4 on back

Remark: Grey Scale rating is based on the 5-step scale of 1 to 5, where 1 is bad and 5 is good.

Colour Fastness To Rubbing

(ISO 105-X12:2016; Size of rubbing finger: 19x25.4mm diameter.)

Dry staining	4-5
Wet staining	4-5

Remark: Grey Scale rating is based on the 5-step scale of 1 to 5, where 1 is bad and 5 is good.

Colour Fastness To Light

(ISO 105-B02:2014; use Xenon arc lamp, exposure cycle A1, no flip-flop mode was used)

Comparison upto blue wool
reference 4
Grade (B.W.S)

4



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Appearance After Drycleaning

(In House Method; SL-TM-DIM-001; Drycleaning procedure same as dimensional stability test)

After 1 dryclean

Observation on drycleaned sample

1. Colour change : 3-4 on back, 4-5 on face

2. Shedding : Negligible change

General appearance of drycleaned sample is unsatisfactory due to point 1.

Remarks: Grey Scale Rating is based on the 5-step scale of 1 to 5, where 1 is bad and 5 is good.

Pilling Resistance

(ISO 12945-1:2000; 18000 revolutions in ICI pilling tester for 5 hours.)

As received

Rating 4-5

Remarks: Pilling Rating

- 5 No change
- 4 Slight surface fuzzing and/or partially formed pills
- 3 Moderate surface fuzzing and/or moderate pilling .Pills of varying size and density partially covering the specimen
- 2 Distinct fuzzing and/or distinct pilling.Pills of varying size and density covering a large proportion of the specimen surface
- 1 Dense surface and/or severe pilling. Pills of varying size and density covering the whole of the specimen surface

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Abrasion Resistance

(ISO 12947-2:2016; Martindale Wear & Abrasion Tester; 12 kPa Pressure)

The Quoted Result (rubs) >50000

Free Formaldehyde Content

Test Method: According to ISO 14184-1:2011 – Textile – Determination of Formaldehyde Part 1: Free and hydrolyzed formaldehyde (water extraction method). Analysis was performed by UV/VIS spectrophotometer.

Result
(mg/kg)

Formaldehyde ND

Note: ND = Not Detected
1ppm =1 mg/kg
Detection limit = 16 mg/kg

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Azo Dyes

Test Method:

All Textile: According to EN 14362-1:2012 – Analysis was conducted with GC-MS/HPLC-DAD.

Amines	Result (mg/kg)	
	CAS No.	
4-Aminobiphenyl	92-67-1	ND
Benzidine	92-87-5	ND
4-Chlor-o-toluidine	95-69-2	ND
2-Naphthylamine	91-59-8	ND
o-Aminoazotoluene	97-56-3	ND
5-nitro-o-toluidine / 2-Amino-4-nitrotoluene	99-55-8	ND
4-Chloroaniline	106-47-8	ND
4-methoxy-m-phenylenediamine / 2,4-Diaminoanisole	615-05-4	ND
4,4'-Diaminodiphenylmethane	101-77-9	ND
3,3'-Dichlorobenzidine	91-94-1	ND
3,3'-Dimethoxybenzidine	119-90-4	ND
3,3'-Dimethylbenzidine	119-93-7	ND
4,4'-methylenedi-o-toluidine / 3,3'-Dimethyl-4,4'-diaminodiphenylmethane	838-88-0	ND
p-Cresidine	120-71-8	ND
4,4'-Methylene-bis-(2-chloroaniline)	101-14-4	ND
4,4'-Oxydianiline	101-80-4	ND
4,4'-Thiodianiline	139-65-1	ND
o-Toluidine	95-53-4	ND
4-methyl-m-phenylenediamine / 2,4-Toluyldiamine	95-80-7	ND
2,4,5-Trimethylaniline	137-17-7	ND
4-aminoazobenzene	60-09-3	ND
O-Anisidine	90-04-0	ND
Conclusion		Pass

Note:

ND = Not Detected(<MDL)

MDL(Method Detection Limit)= 5 mg/kg (for individual compound)

Max Limit:
30 mg/kg
(for individual compound)

Whenever 4-aminodiphenyl (CAS number 92-67-1), 2-naphthylamine (CAS number 91-59-8) and 4-methoxy-m-phenylene-diamine (CAS number 615-05-4) is found, the use of banned azo colorants cannot be reliably ascertained without additional information, e.g. the chemical structure of the colorants used.

In case 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) and

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2,4-toluylen-diamine (TDA, CAS number 95-80-7) 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 (MDA, CAS number 101-77-9) is not released from a source of banned azo colorants but from e.g. a chemical fixing agent.

The EN 14362-1:2012 method will enable further cleavage of 4-aminoazobenzene to non-forbidden amines: aniline and 1,4-phenylenediamine. If aniline and/or 1,4-phenylenediamine is not found (i.e. 5mg/kg) by mentioned test method, test result for 4-aminoazobenzene (CAS no. 60-09-3) is considered as "not detected" (i.e. <5mg/kg). Otherwise, the test method of EN 14362-3:2012 will be employed to verify the presence of 4-aminoazobenzene.

Max. limit specified by entry 43 of Regulation (EC) No 552/2009 amending Annex XVII of REACH Regulation (EC) No 1907/2006

Material qualitative list

Fiber Type*	Material No.
Type A	/
Type B	VELVET FABRIC NAMED ZA-015 IN CAMEL
Type C	/

* This fiber type identification is for the selection of azo dye testing procedure (i.e. EN 14362-1/3:2012).

Note:

Type A = Textile contains natural fibers only and/or regenerated fibers exclude the group of acetate.

Type B = Textile contains polyester fibers only

Type C = Textile contains man-made fibers and/or man-made blended fibers (except polyester fibers)

Remark: Fiber Type is chosen based on client claimed fiber content.

*** End of Report ***



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