



Test
TS EN ISO/IEC 17025
AB-0716-T

AB-0716-T
TURT210131798
10-21

TEST REPORT

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REPORT NUMBER : TURT210131798
APPLICANT NAME : Benaş Tekstil San. ve Tic.Ltd.Şti.
ADDRESS : DOSAB Reyhan Sok. No:1Osmangazi Bursa / TURKEY
TEL:0224 261 22 38FAX:0224 261 23 49
Attention : Özgür Müdüroğlu (ozgur@bentitextile.com)
BUYER IKEA
SAMPLE DESCRIPTION : One sample of beige/dark beige designed woven fabric



DATE IN : 1 October ,2021 (14:43:00)
DATE OUT : 13 October ,2021
DATE STAMP : Not Given
BATCH NO : 21090790001
LOT NO : Not Given
COLOUR NO : 01
ARTICLE NAME : RAJU
ARTICLE NO : BNT4196
SAMPLE NO : 1
REFERENCE : Upholstery Woven Fabric
SPECIFICATION : IOS-PRF-0025: 2015 / AA-35450-13 + IOS-MAT-0010: 2019/AA-10911-15
FIBER COMPOSITION : Claimed to be 100% Recycle Polyester
PROVIDED CARE LABEL :



PP

Ayda CETINKAYA
Busra Zahide GOZUTOK
Customer Care Executive

Zeynep AKIN
Chemical Laboratory Manager

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TEST	SAMPLE
Threads Per Unit Length	1
Abrasion Resistance Martindale	-
Determination Of Mass Per Unit Area, Woven/Knitted Fabrics	-
Elasticity of Fabrics - Strip Tests	-
Resistance to Pilling	-
Seam Slippage Resistance	-
Tensile Strength	-
Yarn Count	-
Tearing Strength - Single Tear	-
Deviation From Size	-
Dimensional Change After Washing and Drying	-
Dimensional Stability After Dry Cleaning	-
Colorfastness to Rubbing-Shampoo	-
Colour Fastness to Rubbing-Perchlorethylene	-
Colour Fastness to Artificial Light - Xenon Arc Fading Lamp Test	-
Colour Fastness to Dry Cleaning	-
Colour Fastness to Perspiration	-
Colour Fastness to Rubbing	-
Colour Fastness to Saliva and Perspiration	-
Colour Fastness To Washing	-
Colour Fastness to Water	-
Colour Fastness to Water Spotting	-
Flammability	-
Alkylphenoethoxylates (APEO)&Alkylphenols(AP) Content	-
Fiber Composition	-
Formaldehyde Content	-
pH Determination	-
Total Cadmium Content(In Metal&Non Metal)	-



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P = MEETS BUYER' S REQUIREMENT / F = DOES NOT MEET BUYER' S REQUIREMENT / NR = NO REQUIREMENT / SC=STILL CONTINUES / X=NOT PERFORMED / NA = NOT APPLICABLE / LS = LACK OF SAMPLE / NC = NO COMMENT / I = INCONCLUSIVE / # = SEE RESULT / NF = NEEDS FURTHER TESTING / A = ABSENT / M = MARGINAL ACCEPT / SD = SEE DETAILS ENCLOSED / FS: FURTHER STEPS / SR = SEE RESULT

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This authorized signature gives Intertek Lab approval to give a copy of test reports and relevant information to IKEA for reference

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Test Method	Results	Requirements
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(*)Threads Per Unit Length

IOS TM-0007:2021 / ISO 7211-2 : 1984

Result

Warp	34.0 threads/cm
Weft	20.0 threads/cm

Measuring distance :3 cm x 3 cm

Number of measurement :5

Estimated Total Uncertainty=($\pm$ % 0,5)

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Abrasion Resistance Martindale

IOS-TM-0007:2020 / ISO 12947-2:2016

Applied Force:12 kPA

Result

Specimen 1	Abrasion @ 26.000 Revolutions
Specimen 2	Abrasion @ 27.000 Revolutions
Specimen 3	Abrasion @ 27.000 Revolutions
Shade Change @ 5000 Revolutions	
Sample 1	4
Sample 2	4
Sample 3	4

Specimen breakdown:
Woven fabrics, two independent threads are broken.

Table 4. Change in appearance
6 - For Pile fabrics (plush, chenille, and cord)
5 - No visible change in appearance
4 - Slight change in appearance
3 - Noticable change in appearance
2 - Clearly visible change in appearance, which affects the overall impression of the fabric
1 - Clearly visible change in appearance / pile is worn off and body of the fabric is visible

Colour Change Grading	
Grade	Description
5	Negligible or no change
4	Slight colour change
3	Moderate colour change
2	Distinct colour change
1	Severe colour change

Estimated Total Uncertainty=($\pm$ 13,8)

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Determination Of Mass Per Unit Area, Woven/Knitted Fabrics

IOS-TM-0007:2021 / EN 12127:1998

Condition: Standard Atmosphere

Result

Specimen 1	485.1 g/m ²
Specimen 2	480.3 g/m ²
Specimen 3	478.6 g/m ²
Specimen 4	478.8 g/m ²
Specimen 5	481.7 g/m ²
Average	480.9 g/m ²

Estimated Total Uncertainty=(±%1.1)

Elasticity of Fabrics - Strip Tests

EN 14704-1:2005(withdrawn)

Elongation @ 100 N

Gauge length for Method A:200±1 mm for woven and non-woven fabric

Test speed for Method A:100 mm/min woven and non-woven fabric

Condition of test specimens: Original

Length	Average % Elongation	4.8 %	
		1 Minute	6 Hours
	Average % Unrecovered Elongation (Growth)	1.0 %	1.0 %
	Average % Recovered Elongation (100-Growth)	99.0 %	99.0 %
Width	Average % Elongation	1.8 %	
		1 Minute	6 Hours
	Average % Unrecovered Elongation (Growth)	1.0 %	1.0 %
	Average % Recovered Elongation (100-Growth)	99.0 %	99.0 %

Test was performed by the request of the applicant.

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Resistance to Pilling

IOS-TM-0007:2021 / ISO 12945-2:2020, ISO 12945-4:2020

<u>Specimen</u> <u>1</u>	<u>Specimen</u> <u>2</u>	<u>Specimen</u> <u>3</u>	<u>Specimen</u> <u>4</u>	<u>Specimen</u> <u>5</u>	<u>Specimen</u> <u>6</u>
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Pilling						
125 Revolutions	5	5	5	5	5	5
500 Revolutions	5	5	5	5	5	5
1.000 Revolutions	5	5	5	5	5	-
2.000 Revolutions	5	5	5	5	-	-
5.000 Revolutions	5	5	5	-	-	-
Fuzzing						
125 Revolutions	4-5	4-5	4-5	4-5	4-5	4-5
500 Revolutions	4-5	4-5	4-5	4-5	4-5	4-5
1.000 Revolutions	4-5	4-5	4-5	4-5	4-5	-
2.000 Revolutions	4-5	4-5	4-5	4-5	-	-
5.000 Revolutions	4-5	4-5	4-5	-	-	-
Matting						
125 Revolutions	5	5	5	5	5	5
500 Revolutions	5	5	5	5	5	5
1.000 Revolutions	5	5	5	5	5	-
2.000 Revolutions	5	5	5	5	-	-
5.000 Revolutions	5	5	5	-	-	-

Estimated Total Uncertainty=(± 0,5 Grade)

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Seam Slippage Resistance

IOS-TM-0007:2021 / ISO 13936 - 2 : 2004

Load Applied:180 N

Average

Warp	1.0 mm
Weft	1.0 mm

Estimated Total Uncertainty=($\pm\%6.8$)

Tensile Strength

IOS-TM-0007:2021 / ISO 13934-1:2013

Tested Conditioned

Gauge Length : 200 mm//Speed : 100mm/min// Preload : 5.0 N

Result

Force	
Warp	1800 N
Weft	2300 N
Elongation	
Warp	58.5%
Weft	30.0%

Estimated Total Uncertainty=(Force için $\pm\%1.8$, Elongation için $\pm\%2.9$)

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Yarn Count

IOS-TM-0007:2021 / ISO 7211-5 Method A: 1984

	<u>Warp</u>	<u>Weft (Ecru)</u>	<u>Weft(Brown)</u>
Total Yarn (Nm)	23.9	4.5	8.6
Total Yarn (Ne)	14.1	2.7	5.1
Total Yarn (Tex)	41.8	222.2	116.3
Number of plies / folds	1	1	1

Note: Sample was tested in standard condition.

Estimated Total Uncertainty=(±%8.8)

Tearing Strength - Single Tear

IOS-TM-0007:2021 / EN ISO 13937 - 2 : 2000

Result

Warp	88.4 N
Weft	143.9 N

Estimated Total Uncertainty=(±%2)

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(*)Deviation From Size

IOS-TM-0007:2021 / ISO 22198 : 2006

Result

Usable Width	143.2 cm
Overall Width	146.9 cm

Estimated Total Uncertainty=(±%2)

Dimensional Change After Washing and Drying

IOS-TM-0007:2021 / ISO 6330:2012, ISO 5077:2007, ISO 3759:2011

3N@30°C Normal, Line Dry

Ballast : Type III 100% Polyester

Dimensional Change %

Length	-0.5
Width	+0.5

Estimated Total Uncertainty=(±%13,8)

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Dimensional Stability After Dry Cleaning

IOS-TM-0007:2021 / ISO 3175-2:2010, Method B
Commercial Dry Clean Mild Process
Cycle 1
Dry Cleaning Equipment Brand / Model :Permark / F10ST2

Dimensional Change %

Length	-1.5
Width	-0.5

Note: Test was performed without sorbitan mono-oleate.
Estimated Total Uncertainty=($\pm\%13,4$)

(*)Colorfastness to Rubbing-Shampoo

IOS-TM-0007:2021 / ISO 105-X12 Shampoo according to SS18 24 10
Size of Rubbing Finger:16 mm

Colour Change

Length	4-5
Width	4-5

Estimated Total Uncertainty=($\pm\%13,4$)

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(*)Colour Fastness to Rubbing-Perchlorethylene

IOS-TM-0007:2021 / ISO 105-X12- perchlorethylene according to ISO105-D02

Size of Rubbing Finger:16 mm

Colour Change

Length	4-5
Width	4-5

Estimated Total Uncertainty=($\pm$ 13,4)

Colour Fastness to Artificial Light - Xenon Arc Fading Lamp Test

IOS-TM-0007:2021 / Refer:ISO 105 B02-2014, Method 3, Modified

Shade Change

	6
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Brand of the blue wool reference used: DEK (Deutsche Echtheitskommission)

Estimated Total Uncertainty=($\pm$ 0,5 Grade)

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Colour Fastness to Dry Cleaning
IOS-TM-0007:2021 / ISO 105 - D01 : 2010

Shade	Staining					
Change	Acetate	Cotton	Nylon	Polyester	Acrylic	Wool

	4-5	4-5	4-5	4-5	4-5	4-5	4-5
	Cross Staining : 4-5						

Estimated Total Uncertainty=(± 0,5 Grade)

Colour Fastness to Perspiration
IOS-TM-0007:2021 / ISO 105-E04 : 2013

Shade	Staining					
Change	Acetate	Cotton	Nylon	Polyester	Acrylic	Wool

pH=5.5 Acid	4	4-5	4-5	4-5	4-5	4-5	4-5
	Cross Staining:4-5						
pH=8,0 Alkaline	4	4-5	4-5	4-5	4-5	4-5	4-5
	Cross Staining:4-5						

Specimen and Perspirometer position: Vertical

Estimated Total Uncertainty=(± 0,5 Grade)

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Colour Fastness to Rubbing

IOS-TM-0007:2021 / ISO 105-X12 : 2001

Size of Rubbing Finger:16 mm

Staining

Colour Change

Dry	Wet	Dry	Wet
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Length	4-5	4-5	4-5	4-5
Width	4-5	4-5	4-5	4-5

Estimated Total Uncertainty=($\pm$ 0,5 Grade)

Colour Fastness to Saliva and Perspiration

IOS-TM-0007:2021 / ISO 105 E04-Solution according to German Law 35 LMBG 82.10.1

Shade	Staining					
Change	Acetate	Cotton	Nylon	Polyester	Acrylic	Wool

	4-5	4-5	4-5	4-5	4-5	4-5	4-5
Cross Staining:4-5							

Estimated Total Uncertainty=(N/A)

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Colour Fastness To Washing

IOS-TM-0007:2021 / ISO 105 C06 : 2010

A2S@30°C (Modified)

Multifibre: DW

Used Detergent: ECE B

Shade	Staining					
Change	Acetate	Cotton	Nylon	Polyester	Acrylic	Wool

	4-5	4-5	4-5	4-5	4-5	4-5	4-5
Cross staining:4-5							

Estimated Total Uncertainty=($\pm 0,5$ Grade)

Colour Fastness to Water

IOS-TM-0007:2021 / ISO 105-E01 : 2013

Used Multifibre: DW

Shade	Staining					
Change	Acetate	Cotton	Nylon	Polyester	Acrylic	Wool

	4-5	4-5	4-5	4-5	4-5	4-5	4-5
Cross Staining:4-5							

Specimen and Perspirometer position: Vertical

Estimated Total Uncertainty=($\pm 0,5$ Grade)

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Colour Fastness to Water Spotting

IOS-TM-0007:2021 / ISO 105-E16 : 2006

Condition during testing:20°C/Relative Humidity:65%/Water Temperature:50°C

Shade

Surface	4-5 Cross Staining:4-5
Edge	4-5 Cross Staining:4-5

Estimated Total Uncertainty=(± 0,5 Grade)

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Flammability

IOS TM 0007:2021 / 16 CFR 1610 : 2015

Original

Fabric Surface	
Raised ()	or Plain (X)
Face (X)	Back ()
Preliminary Testing	
Length(X)	Width ()

After Treatment

Fabric Surface	
Raised ()	or Plain (X)
Face (X)	Back ()
Preliminary Testing	
Length(X)	Width ()

PRELIMINARY TEST RESULTS

Original				After Treatment			
Width		Length		Width		Length	
Time	Code	Time	Code	Time	Code	Time	Code
→	DNI	↑	DNI	→	DNI	↑	DNI
←	DNI	↓	DNI	←	DNI	↓	DNI
→	DNI	↑	DNI	→	DNI	↑	DNI
←	DNI	↓	DNI	←	DNI	↓	DNI

Original		After Treatment	
Time of flame spread (s)	Burn Code	Time of flame spread(s)	Burn Code
↑	DNI	↑	DNI
↑	DNI	↑	DNI
↑	DNI	↑	DNI
↑	DNI	↑	DNI
↑	DNI	↑	DNI

DNI DID NOT IGNITE.

SFBB: TIME IN SECONDS,SURFACE FLASH BASE BURN,BASE STRATS BURNING AT POINTS OTHER THAN THE POINT OF IMPINGEMENT.

SFPOI: SURFACE FLASH ,AT POINT OF IMPINGEMENT ONLY.

SFBBPOI:TIME IN SECONDS,SURFACE FLASH BASE BURN STARTING AT THE POINT OF IMPINGEMENT

IBE:IGNITED, BUT EXTINGUISHED

NO = Not Observed / N/S= Not Severed

SFONLY: TIME IN SECONDS,SURFACE FLASH ONLY,NO DAMAGE TO THE BASE FABRIC.

SFPW : SURFACE FLASH, PART WAY, NO TIME SHOWN BECAUSE THE SURFACE FLASH DID NOT REACH THE CORD

SF UC:SURFACE FLASH , UNDER THE CORD, BUT DOES NOT BREAK THE CORD

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Alkylphenoethoxylates (APEO)&Alkylphenols(AP) Content

IOS MAT 0010:2019-12-20 AA-10911-15/Solvent Extraction followed by LC-MS-MS Analysis

Determination of APEO by Liquid Chromotography-Mass Spectrometry (LC-MS-MS) Analysis

Beige,dark beige design woven fabric	
Nonylphenols (NP)	ND
Octylphenols (OP)	ND
Nonoylphenoethoxylates(NPEO)	ND
Octylphenoethoxylates(OPEO)	ND

Remark: > = LESS THAN
ppm = PART MILLION = mg/kg
ND: Not Detected
DETECTION LIMIT: 1 ppm

Estimated Total Uncertainty=(±10%)

Fiber Composition

IOS-TM-0007:2021 / ISO 1833 : 2006

Microscopic Identification	100% Polyester
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Formaldehyde Content

IOS MAT 0010:2019-AA-10911-15/ISO 14184-1: 2011 Free and Hydrolized Formaldehyde by UV-VIS Analysis

Result

Beige,dark beige design woven
fabric

Not Detected

ppm (part per million) =mg / kg
Detection Limit =5 ppm
< =Less Than
Estimated Total Uncertainty=(±6%)
Note :Sample was received unsealed

pH Determination

IOS-TM-0007:2021 / ISO 3071 : 2020 with KCl Extracting Solution

Extraction Solution Temperature: 22.0°C
pH of extracting solution: 5.7

pH

Beige,dark beige design woven
fabric

6.1

Estimated Total Uncertainty=(Textile: ± 2%)

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Total Cadmium Content(In Metal&Non Metal)

IOS MAT 0010:2019-12-20 AA-10911-15/With reference to USEPA 3050B / USEPA 3051 /USEPA 3051A/ US EPA 3052 ,by acid digestion and determinated by ICP-OES

Result

Cadmium (Cd) Not Detected

Remarks :	ppm=Parts per million based on dry weight of sample
	<=Less than
	Detection Limit = 1 ppm ND =Not detected

Estimated Total Uncertainty=(Textile: $\pm$ 2%)