AB-0716-T
TURT210131798
10-21

TEST REPORT

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

Nida Arslanbay
Textile Laboratory Manager

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TEST REPORT

TEST	SAMPLE 1
Threads Per Unit Length	-
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	-
Alkylphenolethoxylates (APEO)&Alkylphenols(AP) Content	-
Fiber Composition	-
Formaldehyde Content	-
pH Determination	-
Total Cadmium Content(In Metal&Non Metal)	-

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TEST REPORT

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

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

(*)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 Uncertainity=(±% 0,5)

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Test Method	Results	Requirements

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 indipendent 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 Uncertainity=(±%13,8)

Test Method	Results	Requirements

Determination Of Mass Per Unit Area, Woven/Knitted Fabrics

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

Condition: Standard Athmosphere

	Result
Specimen 1	485.1 g/m²
Specimen 2	480.3 g/m²
Specimen 3	478.6 g/m²
Specimen 4	478.8 g/m²
Specimen 5	481.7 g/m²
Average	480.9 g/m²

Estimated Total Uncertainity=(±%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.

Test Method	Results	Requirements

Resistance to Pilling

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

	Specimen 1	Specimen 2	Specimen 3	Specimen 4	Specimen 5	Specimen 6
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 Uncertainity=(± 0,5 Grade)

Test Method	Results	Requirements

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 Uncertainity=(±%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 Uncertainity=(Force için ±%1.8, Elongation için ±%2.9)

Test Method	Results	Requirements

Yarn Count

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

	Warp	Weft (Ecru)	Weft(Brown)
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 Uncertainity=(±%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 Uncertainity=(±%2)

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Test Method	Results	Requirements

(*)Deviation From Size

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

	Result
Usable Width	143.2 cm
Overall Width	146.9 cm

Estimated Total Uncertainity=(±%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 Uncertainity=(±%13,8)

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Test Method	Results	Requirements

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 Uncertainity=(±%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 Uncertainity=(±%13,4)

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Test Method	Results	Requirements

(*)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 Uncertainity=(±%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

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

Estimated Total Uncertainity=(± 0,5 Grade)

Test Method	Results	Requirements

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 Uncertainity=(± 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 Uncertainity=(± 0,5 Grade)

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Test Method	Results	Requirements

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
Length	4-5	4-5	4-5	4-5
Width	4-5	4-5	4-5	4-5

Estimated Total Uncertainity=(± 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 Uncertainity=(N/A)

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Test Method	Results	Requirements

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 Uncertainity=(± 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 Uncertainity=(± 0,5 Grade)

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

Test Method	Results	Requirements
	Shade	
Surface	4-5 Cross Staining:4-5	
Edge	4-5 Cross Staining:4-5	

Estimated Total Uncertainity=(± 0,5 Grade)

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Test Method	Results	Requirements

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

Test Method	Results	Requirements

Alkylphenolethoxylates (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
Nonoylphenolethoxylates(NPEO)	ND
Octylphenolethoxylates(OPEO)	ND

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

Estimated Total Uncertainity=(±10%)

Fiber Composition

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

Microscopic Identification	100% Polyester

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Test Method	Results	Requirements

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 Uncertainity=(±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 Uncertainity=(Textile: ± 2%)

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Test Method	Results	Requirements

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 Uncertainity=(Textile: ± 2%)