



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

AB-0716-T
TURT210021516
03-21

TEST REPORT

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REPORT NUMBER : TURT210021516
APPLICANT NAME : Kurt Kumaş San. Tic. A.Ş.
ADDRESS : 2. Organize Batı 2. Cd. No:1 Gaziantep / TURKEY
TEL:0342 337 45 70FAX:0342 337 45 79
Attention : İdil Güner (idil.guner@kurtnonwoven.com)
BUYER : IKEA
SAMPLE DESCRIPTION : One sample of white non woven fabric (70 gr)



DATE IN : 15 February ,2021 (10:45:00)
RESUBMIT DATE : 5 March ,2021
DATE OUT : 8 March ,2021
DATE STAMP : Not Given
BATCH NO : Not Given
LOT NO : Not Given
COLOUR NAME : Not Given
ARTICLE NAME : 100% PP SPUNBOND NONWOVEN
SPECIFICATION : IOS-PRF-0103: 2021 / AA-2040746-6+ IOS-MAT-0010: 2019 / AA-10911-15
FABRIC WEIGHT : Claimed to be 70 g/m²
PREVIOUS REPORT NO : TURT190046898_REVISED01
FIBER COMPOSITION : Claimed to be 100% Polypropylene
PROVIDED CARE LABEL :



Ayda CETINKAYA
Customer Care Executive

Zeynep AKIN
Chemical Laboratory Manager

Nida Arslanbay
Textile Laboratory Manager

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TEST	SAMPLE
	1
Abrasion Resistance Martindale	-
Determination of Weight , Non - Wovens	-
Resistance to Pilling	-
Seam Slippage Resistance	-
Tensile Strength	-
Tearing Strength - Single Tear	-
Deviation From Size	-
Colour Fastness to Artificial Light - Xenon Arc Fading Lamp Test	-
Colour Fastness to Perspiration	-
Colour Fastness to Saliva and Perspiration	-
Colour Fastness To Washing	-
Colour Fastness to Water Spotting	-
Flammability 45° Angle Test	-
Flammability	-
Alkylphenoethoxylates (APEO)&Alkylphenols(AP) Content	-
Fiber Composition	-
Formaldehyde Content	-
pH Determination	-

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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(*)Abrasion Resistance Martindale

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

Applied Force:12 kPA

Result

Specimen 1	Abrasion @ 9.000 Revolutions
Specimen 2	Abrasion @ 10.000 Revolutions
Specimen 3	Abrasion @ 11.000 Revolutions
Shade Change @ 5000 Revolutions	
Sample 1	4-5
Sample 2	4-5
Sample 3	4-5

Specimen breakdown:

Nonwovens, the first hole is of a diameter at least equal to 2.5 mm

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=(±%12,8)

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Test Method	Results	Requirements
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(*)Determination of Weight , Non - Wovens

IOS-TM-007: 2020 / ISO 9073-1 :1989

Result

Specimen 1	68.4 g/m ²
Specimen 2	70.9 g/m ²
Specimen 3	71.5 g/m ²
Specimen 4	72.5 g/m ²
Specimen 5	70.6 g/m ²
Average	70.8 g/m ²

Estimated Total Uncertainty=(±%12,8)

Resistance to Pilling

IOS-TM-0007:2020 / ISO 12945-2:2000

Grade due to #Fuzzing
##Pilling + Fuzzing

<u>Specimen</u>	<u>Specimen</u>	<u>Specimen</u>	<u>Specimen</u>	<u>Specimen</u>	<u>Specimen</u>
<u>1</u>	<u>2</u>	<u>3</u>	<u>4</u>	<u>5</u>	<u>6</u>

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###	4###	4###	4###	-	-

Estimated Total Uncertainty=(± 0,5 Grade)

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Test Method	Results	Requirements
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Seam Slippage Resistance

IOS-TM-0007:2020 / ISO 13936 - 2 : 2004

Load Applied:180 N

Average

Warp	120.8 N
Weft	165.9 N

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

Tensile Strength

IOS-TM-0007:2020 / ISO 13934-1:2013

Tested Conditioned

Gauge Length : 200 mm//Speed : 100mm/min// Preload : 2.0 N

Result

Force	
Warp	150 N
Weft	95 N
Elongation	
Warp	56.5%
Weft	62.0%

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

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Test Method	Results	Requirements
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Tearing Strength - Single Tear

IOS-TM-0007:2020 / EN ISO 13937 - 2 : 2000

Result

Warp	57.0 N #
Weft	29.2 N

#Since the fabric was torn to other direction, this method is not appropriate for the testing of this direction.

Estimated Total Uncertainty=(±%2)

(*)Deviation From Size

IOS-TM-0007:2020 / ISO 22198 : 2006

Result

Usable Width	-
Overall Width	226.3 cm

Estimated Total Uncertainty=(±%2)

Colour Fastness to Artificial Light - Xenon Arc Fading Lamp Test

IOS-TM-0007:2020 / Refer:ISO 105 B02-2014, Method 3, Modified

Shade Change

5+

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

Estimated Total Uncertainty=(± 0,5 Grade)

Test Method	Results	Requirements
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Colour Fastness to Perspiration

IOS-TM-0007:2020 / ISO 105-E04 : 2013

Shade	Staining					
Change	Acetate	Cotton	Nylon	Polyester	Acrylic	Wool

pH=5.5 Acid	4-5	5	5	5	5	5	5
pH=8,0 Alkaline	4-5	5	5	5	5	5	5

Specimen and Perspirometer position: Vertical

Estimated Total Uncertainty=(± 0,5 Grade)

Colour Fastness to Saliva and Perspiration

IOS-TM-0007:2020 / ISO 105 E04-Solution according to German Law 35 LMBG 82.10.1

Shade	Staining					
Change	Acetate	Cotton	Nylon	Polyester	Acrylic	Wool

	4-5	5	5	5	5	5	5
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Estimated Total Uncertainty=(N/A)

Test Method	Results	Requirements
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Colour Fastness To Washing

IOS-TM-0007:2020 / ISO 105 C06 : 2010

C2S@60°C

Multifibre: TW

Used Detergent: ECE B

Shade	Staining					
Change	Acetate	Cotton	Nylon	Polyester	Acrylic	Viscose

	4-5	5	5	5	5	5	5
--	-----	---	---	---	---	---	---

Estimated Total Uncertainty=(± 0,5 Grade)

Colour Fastness to Water Spotting

IOS-TM-0007:2020 / ISO 105-E16 : 2006

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

Shade

Surface	4-5
Edge	4-5

Estimated Total Uncertainty=(± 0,5 Grade)

Test Method	Results	Requirements
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Flammability

IOS TM 0007:2020 / 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
→	IBE	↑	IBE	→	IBE	↑	IBE
←	IBE	↓	IBE	←	IBE	↓	IBE
→	IBE	↑	IBE	→	IBE	↑	IBE
←	IBE	↓	IBE	←	IBE	↓	IBE

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

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

Alkylphenols

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-0007:2020 / ISO 1833 : 2006
Microscopic Identification & Method 16

100% Polypropylene

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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

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-0007:2020 / ISO 3071 : 2020 with KCl Extracting Solution

Extraction Solution Temperature : 22.0°C

pH of extracting solution :6.0

pH

6.8

Estimated Total Uncertainty=(Textile: ± 2%)

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(*)Flammability 45° Angle Test

**SOR/2016-194: Flame Resistance – 45° Angle Test – One
Second Flame Impingement - CAN/CGSB-4.2 No. 27.5-
2008**

Fire retardant	
Yes ()	No(X)

Original

Fabric Surface	
Raised()	Plain(X)
Face(X)	Back()
Test Direction	
Length(X)	Width()

ORIGINAL

Time of flame spread(s)	Burn Code
1. ↑	IBE
2. ↑	IBE
3. ↑	IBE
4. ↑	IBE
5. ↑	IBE
6. ↑	IBE
7. ↑	IBE
8. ↑	IBE
9. ↑	IBE
10. ↑	IBE

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DNI: DID NOT IGNITE
IBE: IGNITED, BUT EXTINGUISHED
SFPW : SURFACE FLASH, PART WAY, NO TIME SHOWN BECAUSE THE SURFACE FLASH DID NOT REACH THE CORD.
SFPOI: SURFACE FLASH, AT POINT OF IMPINGEMENT ONLY.
SFBB POI: TIME IN SECONDS, SURFACE FLASH BASE BURN STARTING AT THE POINT OF IMPINGEMENT

END OF TEST REPORT
