



## TEST REPORT

**REPORT NUMBER :** TURT190051319  
**APPLICANT NAME :** Extrapack OOD  
**ADDRESS :** Patriah Evtimij 7 Str. - V.Tarnovo / BULGARIA  
TEL: 00359 62 611590  
**Attention :** Elitsa Kresteva ( team@bags.bg; eli@bags.bg )  
**BUYER :** IKEA  
**SAMPLE DESCRIPTION :** One sample of white non-woven fabric



**DATE IN :** 20 March ,2019 ( 09:05:00)  
**RESUBMIT DATE :** 25 March ,2019  
**DATE OUT :** 29 March ,2019  
**DATE STAMP :** 14.03.2019 r  
**BATCH NO :** Not Given  
**LOT NO :** Not Given  
**COLOUR NAME :** WHITE  
**ARTICLE NAME :** Not Given  
**SPECIFICATION :** IOS-PRG-0029:2016/AA359955-3 + IOS-MAT-0010:2018-06-20/AA-10911-14  
**FIBER COMPOSITION :** Not Given  
**PROVIDED CARE LABEL :**



Ayda CETINKAYA  
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# TEST REPORT

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TEST	SAMPLE
	1
Abrasion Resistance Martindale	-
Determination of Weight , Non - Wovens	-
Resistance to Pilling -Back Part	-
Resistance to Pilling -Face Part	-
Tensile Strength	-
Tearing Strength - Single Tear	-
Dimensional Change After Washing and Drying	-
Dimensional Stability After Dry Cleaning	-
Colour Fastness to Artificial Light - Xenon Arc Fading Lamp Test	-
Colour Fastness to Perspiration	-
Surface Wetting	-
Flammability	-
Flammability- Curtains and Drapes-Bottom Ignition	P
Flammability- Curtains and Drapes-Surface Ignition	P
Formaldehyde Content	-
pH Determination	-
Total Cadmium Content( In Metal&Non Metal)	-
Total Lead Content	-

**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**

Testing reports without signature are not valid

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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-0007:2017 / ISO 12947 - 2 : 2016

Applied Force:12 kPA

**Result**

Specimen 1	Abrasion @ 1.000 Revolutions
Specimen 2	Abrasion @ 1.000 Revolutions
Specimen 3	Abrasion @ 1.000 Revolutions

Specimen breakdown:

Nonwovens, the first hole is of a diameter at least or 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

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

IOS-TM-007: 2017 / ISO 9073-1 :1989

**Result**

Specimen 1	13.0 g/m <sup>2</sup>
Specimen 2	13.5 g/m <sup>2</sup>
Specimen 3	12.9 g/m <sup>2</sup>
Specimen 4	12.4 g/m <sup>2</sup>
Specimen 5	12.7 g/m <sup>2</sup>
Average	12.9 g/m <sup>2</sup>

Test Method	Results	Requirements
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**Resistance to Pilling**

IOS-TM-0007:2017 / ISO 12945-2:2000

Grade due to #Fuzzing  
##Fuzzing + Pilling

**-Face Part**

	<u>Specimen 1</u>	<u>Specimen 2</u>	<u>Specimen 3</u>	<u>Specimen 4</u>	<u>Specimen 5</u>	<u>Specimen 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##	4##	4##	4##	4##	-
2.000 Revolutions	4##	4##	4##	4##	-	-

**-Back Part**

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

Test Method	Results	Requirements
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### Tensile Strength

IOS-TM-0007:2017 / ISO 13934-1:2013

Tested Conditioned

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

#### Result

Force	
Warp	22.0 N
Weft	13.0 N
Elongation	
Warp	153.0%
Weft	154.0%

Estimated Total Uncertainty=( ±%11,3 )

### Tearing Strength - Single Tear

IOS-TM-0007:2017 / EN ISO 13937 - 2 : 2000

#### Result

Warp	11.5 N
Weft	9.6 N

Estimated Total Uncertainty=( ±%4.5)

Test Method	Results	Requirements
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### Dimensional Change After Washing and Drying

IOS-TM-0007:2017 / ISO 6330:2012, ISO 5077:2007, ISO 3759:2011  
4N@40°C Normal, Tumble Dry  
Ballast : Type III 100% Polyester

#### Dimensional Change %

Length	0
Width	0

Estimated Total Uncertainty=( ±%18,8)

### Dimensional Stability After Dry Cleaning

IOS-TM-0007:2017 / ISO 3175-2:2010, Method B  
Commercial Dry Clean  
Cycle1  
Method A: No finishing required  
Dry Cleaning Equipment Brand / Model :Permark / F10ST2

#### Dimensional Change %

Length	-3.0
Width	+0.5

Note: Test was performed without sorbitan mono-oleate.

Estimated Total Uncertainty=( ±%13,3)

Test Method	Results	Requirements
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**Colour Fastness to Artificial Light - Xenon Arc Fading Lamp Test**

IOS-TM-0007:2017 / Refer:ISO 105 B02-2014, Method 3, Modified

Shade Change

	5+
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Brand of the blue wool reference used: DEK (Deutsche Echtheitskommission)

**Estimated Total Uncertainty=( ± 0,5 Grade)**

**Colour Fastness to Perspiration**

IOS-TM-0007:2017 / 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)**



Test Method	Results	Requirements
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### Surface Wetting

IOS-TM-0007:2017 / ISO 4920 :2012

4N@40°C Normal , Tumble Dry

Water temperature 20°C

Ambient atmosphere 21°C 64% RH

#### Before Ironing

Before Wash	0/0/0
After 1 Wash	0/0/0
After 5 Wash	0/0/0

Test method was given by the applicant.

#### Test Condition

Humidity : 65 %  $\pm$ 4

Temperature : 20 %  $\pm$ 2

#### Rating Table

5	No sticking or wetting of upper surface ISO 5
4	Slight random sticking or wetting of upper surface ISO 4
3	Wetting of upper surface at spray point ISO 3
2	Partial wetting of whole upper surface ISO 2
1	Complete wetting of whole of upper surface ISO 1
0	Complete wetting of whole of upper and lower surface ISO 0

**Estimated Total Uncertainty=(  $\pm$ 0.5 Grade)**

Test Method	Results	Requirements
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**Flammability**

IOS TM 0007:2017 / 16 CFR 1610 : 2015

**Original**

**After Treatment**

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

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

Test Method	Results	Requirements
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### Formaldehyde Content

IOS MAT 0010:2018-AA-10911-14/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-0007:2017 / ISO 3071 : 2005

Extraction Solution Temperature : 22.0°C  
pH of extracting solution :6.0

#### pH

6.3

Test Method	Results	Requirements
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**Total Cadmium Content( In Metal&Non Metal)**

IOS MAT 0010:2018-AA-10911-14/With reference to USEPA 3050B / USEPA 3051 /USEPA 3051A/ US EPA 3052 ,by acid digestion and determined 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	

**Total Lead Content**

IOS MAT 0010:2018-AA-10911-14/IHTM AL.2.222 Refer to USEPA 3050B : 1996 / USEPA 3051 : 1994 / USEPA 3052 : 1996

:

	RESULT
Lead (Pb)	Not Detected

< = less then ppm: parts per million (mg/kg)  
ND : Not Detected

**Estimated Total Uncertainty=( ±4%)**

### Flammability- Curtains and Drapes-Bottom Ignition

Test Method	Pre Treatment	Requirement	Result
BS EN 1102 : 1996	Washed in accordance with BS EN 26330:1994 4N@40°C Normal, Tumble Dry	Flame spread rate not to exceed 60 mm/s on more than one of the six specimens tested	P

#### Test Specification

Test Method: BS EN ISO 6941:1995  
Criterion of ignition: 40 mm high, propane gas flame applied 10 seconds  
Ignition Type: Surface Ignition  
Sample Size: 560 mm x 170 mm  
Side Tested:FACE

#### Pre-treatment / Durability procedure

Washed in accordance with BS EN 26330:19944N@40°C Normal, Tumble Dry

#### Condition:

Prior to testing: At least 24 hours in an atmosphere having a temperature 20±2 °C, and a relative humidity of 65±5%  
At time of testing: Temperature between 10°C & 30°C.  
Relative humidity between 15% & 80%.  
Air movement less than 0.2 m/s.

**Test Result:**

*'This method assesses the properties of textile fabrics in response to flame contact under controlled conditions. Result may not apply in situations where there is restricted air supply or exposure to large sources of intense heat.'*

Specimen Direction	Length Direction			Width Direction		
	↑	↓	↑	→	←	→
Time (Seconds) to 1st marker thread @ 220 mm	NS	NS	NS	NS	NS	NS
Time (Seconds) to 3rd marker thread @ 520 mm	NS	NS	NS	NS	NS	NS
Mean flame spread time (Seconds) @ 220 mm	0			0		
Mean flame spread time (Seconds) @ 520 mm	0			0		
Flame spread rate (mm/s)	-	-	-	-	-	-
Mean Flame spread rate (mm/s)	-			-		
Number of specimen that fail to ignite	6					
Number of specimens which ignited but failed to burn the 1st marker thread	0					
Flaming Debris (Y/N)	N	N	N	N	N	N
Flaming debris ignited the filter paper (Y/N)	N	N	N	N	N	N
Surface Flash (Y/N)	N	N	N	N	N	N
Darting flame (Y/N)	N	N	N	N	N	N
Formation of sparks (Y/N)	N	N	N	N	N	N

Y:Yes N:No N/S:Not Severed N/A:Not Applicable

Estimated Total Uncertainty=( ±%7,5)

RESULTS  
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### Flammability- Curtains and Drapes-Surface Ignition

Test Method	Pre Treatment	Requirement	Result
BS EN 1102 : 1996	Washed in accordance with BS EN 26330:1994 4N@40°C Normal, Tumble Dry	Flame spread rate not to exceed 60 mm/s on more than one of the six specimens tested	P

#### **Test Specification**

Test Method: BS EN ISO 6941:1995  
Criterion of ignition: 40 mm high, propane gas flame applied 10 seconds  
Ignition Type: Surface Ignition  
Sample Size: 560 mm x 170 mm  
Side Tested:FACE

#### **Pre-treatment / Durability procedure**

Washed in accordance with BS EN 26330:19944N@40°C Normal, Tumble Dry

#### **Condition:**

Prior to testing: At least 24 hours in an atmosphere having a temperature 20±2 °C, and a relative humidity of 65±5%  
At time of testing: Temperature between 10°C & 30°C.  
Relative humidity between 15% & 80%.  
Air movement less than 0.2 m/s.

**Test Result:**

*'This method assesses the properties of textile fabrics in response to flame contact under controlled conditions. Result may not apply in situations where there is restricted air supply or exposure to large sources of intense heat.'*

Specimen Direction	Length Direction			Width Direction		
	↑	↓	↑	→	←	→
Time (Seconds) to 1st marker thread @ 220 mm	NS	NS	NS	NS	NS	NS
Time (Seconds) to 3rd marker thread @ 520 mm	NS	NS	NS	NS	NS	NS
Mean flame spread time (Seconds) @ 220 mm	0			0		
Mean flame spread time (Seconds) @ 520 mm	0			0		
Flame spread rate (mm/s)	-	-	-	-	-	-
Mean Flame spread rate (mm/s)	-			-		
Number of specimen that fail to ignite	6					
Number of specimens which ignited but failed to burn the 1st marker thread	0					
Flaming Debris (Y/N)	N	N	N	N	N	N
Flaming debris ignited the filter paper (Y/N)	N	N	N	N	N	N
Surface Flash (Y/N)	N	N	N	N	N	N
Darting flame (Y/N)	N	N	N	N	N	N
Formation of sparks (Y/N)	N	N	N	N	N	N

Y:Yes N:No N/S:Not Severed N/A:Not Applicable

Estimated Total Uncertainty=( ±%7,5)