

## TEST REPORT

**REPORT NUMBER :** TURT100013872  
**APPLICANT NAME** Arben Int.ILL.  
**ADDRESS** 287 Avonuex Brooklyn NY USA  
FAX NO :+17183766258  
**BUYER** IKEA  
**SAMPLE DESCRIPTION :** One sample of hazel woven furniture fabric - BI ANKA



**DATE IN :** 18 March, 2011 (15:20)  
**DATE OUT :** 21 March, 2011 / 23 March, 2011  
**SPECT NO :** IOS PRG 0025  
**FIBER COMPOSITION :** Claimed to be 100% Polyeter  
**ARTICLE NAME :** BI ANKA  
**ARTICLE NO :** A 228  
**NOTE :** Colour fastness to light and abrasion resistance tests were added.

Seyyal Samanci  
COORDINATOR

Hale Özlem Çavumirza  
TEXTILE LABORATORY MANAGER



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0013872

Test Method	Result	Requirements
<b>TEST</b>	<b>Sample</b>	
DIMENSIONAL CHANGE TO WASHING	-	
APPEARANCE AFTER WASHING	-	
DEVIATION FROM SIZE	-	
FABRIC WEIGHT	-	
TENSILE STRENGTH	-	
TEAR STRENGTH	-	
SEAM SLIPPAGE	-	
ABRASION RESISTANCE	-	
YARN COUNT	-	
CONSTRUCTION DENSITY	-	
APEO TEST	-	
FIBER COMPOSITION	-	
FORMALDEHYDE	-	
PH VALUE	-	
COLOUR FASTNESS TO WASHING	-	
COLOUR FASTNESS TO WATER	-	
COLOUR FASTNESS TO RUBBING	-	
COLOUR FASTNESS TO LIGHT	-	
FLAMMABILITY	-	

P = MEETS BUYER' S REQUIREMENT / F = DOES NOT MEET BUYER' S REQUIREMENT / NR = NO REQUIREMENT / SC=STILL CONTINUES / X=NOT PERFORMED

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The reported uncertainty is based on a standard uncertainty multiplied by a coverage factor k=2, providing a level of confidence of approximately 95%. The uncertainty evaluation has been carried out in accordance with ISO/IEC 17025 and UKAS accreditation requirements. Unless otherwise is specified, all Pass or Fail results are given without uncertainty considered. When uncertainty is taken into account, the result may be borderline. Borderline results need to be re-tested to determine their disposition up to customer's decision. Opinions and interpretations expressed herein are outside the scope of UKAS accreditation. Tests marked (\*) in this test report are not included in the UKAS accreditation schedule for this laboratory.



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Test Method	Result	Requirements
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### Dimensional Change To Washing

ISO 6330, ISO 3759:2000/IOS-TM-0007 : 2008

5A@40 degree Line Dry

#### Dimensional Change %

#### Before Ironing

Length	-0.8
Width	-1.0

#### After 1 Dot Ironing

Length	-0.5
Width	-0.7

(Total uncertainty=Knit= Length:  $\pm 6\%$  Width:  $\pm 6\%$  / Woven= Warp:  $\pm 3\%$  Weft:  $\pm 4\%$ )



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Test Method	Result	Requirements
<b>Appearance After Washing</b>		
BS EN ISO 6330 (Technically equivalent to SS EN ISO 6330)/IOS-TM-0007 : 2008		
<b>1 Wash</b>	<b>Colour Change</b>	
	Brown (Main)	4-5
<b>3 Washes</b>	<b>Colour Change</b>	
	Brown (Main)	4-5
<b>5 Washes</b>	<b>Colour Change</b>	
	Brown (Main)	4-5

**WASHING CONDITION**

BS EN ISO 6330, ISO 6330

5A@40°C, Line Dry

Detergent: IEC with optical brightener + Sodium Perborate

(Total Uncertainty=±0.5 grade)

(Total uncertainty=Knit= Length: ± 6% Width: ± 6% / Woven= Warp: ± 3% Weft: ± 4 %)

**(\*)Deviation From Size**

ISO 22198 : 2006

Usable Width : 144.0 cm



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Test Method	Result	Requirements
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**Fabric Weight**

ISO 3801 : 1977

470.7 g/m<sup>2</sup>

(Total uncertainty=± 0,7 %)

**Tensile Strength**

EN ISO 13934-1:1999/IOS-TM-0007 : 1999

Length : 2797.0 N

Width : 2855.0 N

(Total uncertainty=Length ±% 1.7 Width ±% 1.4 )

**Tear Strength**

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

Length : 338.3 N

Width : 261.6 N

(Total uncertainty=Warp: ± 2,3 Weft: ± 3 %)

**(\*)Seam Slippage**

ISO 13936-2/IOS-TM-0007 :

Applied force : 180 N

Length : 1.0 mm

Width : N/F\*

NF\* = No seam opening was recorded up to >180.0 N



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Test Method	Result	Requirements
<b>Abrasion Resistance</b>		
ISO 12947-2/IOS-TM-0007 : 1999		
End Point - Head 1	>100.000 revs	
End Point - Head 2	>100.000 revs	
End Point - Head 3	>100.000 revs	
Average	>100.000 revs	
Change in color 5000 Revolutions		
Sample 1	4-5	
Sample 2	4-5	
Sample 3	4-5	
Average	4-5	

(Total uncertainty=Abrasion:  $\pm 3,2\%$  CC:  $\pm 0,5$  Grade )

### Yarn Count

ISO 7211-5/IOS-TM-0007 : 1984

Length	Thin yarn:	17.1/1 Ne (34.4X1 Tex)
	Thick yarn:	2.0/1 Ne (294.1X1 Tex)
Width	Thin yarn:	7.5/1 Ne (78.7X1 Tex)
	Thick yarn:	2.0/1 Ne (294.1X1 Tex)

(Total uncertainty= $\pm 2.9\%$ )



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**Test Method**

**Result**

**Requirements**

**(\*)Construction Density**

ISO 7211-2 : 1984

Length

29.7 threads/cm

Width

18.7 threads/cm

**NONYLPHENOL ETHOXYLATES (NPEO) AND OCTYLPHENOL ETHOXYLATES(OPEO) CONTENT**

IHTM AL.2.037

BY SOLVENT EXTRACTION AND FOLLOWED BY LIQUID CHROMATOGRAPHIC-MASS SPECTROMETRIC (LC-MS-MS) ANALYSIS.

**Compound**

**Test Result (ppm)**

NPEO

15 ppm

OPEO

ND

TOTAL

15 ppm

**IKEA ' S REQUIREMENT (TOTAL) : SKIN CONTACT :100 ppm (MAX)**

**NON SKIN CONTACT :250 ppm (MAX)**

**REMARK: > =LESS THAN**

**ppm=PARTS PER MILLION =mg/kg**

**ND:NOT DETECTED**

**REPORTING LIMIT:10 ppm**

**Fiber Composition**

ISO 1833 : 2008

**100% POLYESTER**



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Test Method	Result	Requirements
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**Formaldehyde**

BS EN ISO 14184-1/IOS-TM-0007 : 1999

**<10 ppm**

(Total uncertainty=± 6 %)

**pH value**

ISO 3071/IOS-TM-0007 : 2005

**5.4**

(Total uncertainty=± 0,11 pH)

**Colour Fastness To Washing**

BS EN ISO 105-C06 : 1997 :A2S: 40 deg

Shade change	staining					
	acetate	cotton	nylon	polyester	acrylic	wool

4-5	4-5	4-5	4-5	4-5	4-5	4-5
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(Total uncertainty=± 0,5 Grade)



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Test Method	Result	Requirements
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**Colour Fastness To Water**  
BS EN ISO 105-E01/IOS-TM-0007 : 1996

Shade change	staining					
	acetate	cotton	nylon	polyester	acrylic	wool
4-5	4-5	4-5	4-5	4-5	4-5	4-5

(Total uncertainty=± 0,5 Grade)

**Colour Fastness to Rubbing**

	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

BS EN ISO 105-X12/IOS-TM-007 : 2002

(Total uncertainty=± 0,5 Grade)

**(\*)Colour Fastness to Light**

ISO 105-B02-Modified-IKEA METHOD/ IOS-TM-0007 : Grade 6

Shade Change
3-4

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

Staining Grading	
Grade	Description
5	Negligible or no change
4	Slight staining
3	Moderate staining
2	Distinct staining
1	Severe staining



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**Test Method**

**Result**

**Requirements**

**FLAMMABILITY TEST**

Samples 1  
(IKEA TEST METHOD) - 16 CFR 1610: 2008/IOS-TM-0007 - : 2008

BURN DIRECTION :		LENGTH	BURN DIRECTION :		LENGTH
PRELIM RAISED SURFACE :			PRELIM RAISED SURFACE :		
LENGTH			LENGTH		
WIDTH			WIDTH		
PRELIM PLAIN SURFACE :		X	PRELIM PLAIN SURFACE :		X
LENGTH X			LENGTH X		
WIDTH			WIDTH		
	ORIGINAL (SECONDS)		AFTER ONE DRYCLEANING/LAUNDERING (SECONDS)*		
1.	↑	DNI	1.	↑	DNI
2.	↑	DNI	2.	↑	DNI
3.	↑	DNI	3.	↑	DNI
4.	↑	DNI	4.	↑	DNI
5.	↑	DNI	5.	↑	DNI
6.			6.		
7.			7.		
8.			8.		
9.			9.		
10.			10.		
AVERAGE.		-	AVERAGE.		-

**EXPLANATION OF FLAMMABILITY RESULTS:**

- \*BE IGNITED, BUT EXTINGUISHED, THE ASTERISK (\*) DENOTES A BURN THAT GOES UNDER THE CORD WITHOUT BREAKING THE CORD.
- NI DID NOT IGNITE.
- BE IGNITED BUT EXTINGUISHED.
- F SURFACE FLASH
- \*0.0 SFBB POI TIME IN SECONDS, SURFACE FLASH BASE BURN POSSIBLY STARTING AT THE POINT OF IMPINGEMENT. THE ASTERISK IS ACCOMPANIED BY THE FOLLOWING: "UNABLE TO MAKE ABSOLUTE DETERMINATION AS TO SOURCE OF BASE BURNS." THIS NOTE IS ADDED TO THE RESULT OF ANY SPECIMEN IF THERE IS A QUESTIONS AS TO ORIGIN OF THE BASE BURNING. IT DOES NOT QUALIFY AS A BASE BURN UNDER THE CURRENT INTERPRETATION OF CFR 1610.
- 0.0 SF ONLY TIME IN SECONDS, SURFACE FLASH ONLY. NO DAMAGE TO THE BASE FABRIC.
- 0.0 SFBB TIME IN SECONDS, SURFACE FLASH BASE BURN. BASE STARTS BURNING AT POINTS OTHER THAN THE POINT OF IMPINGEMENT.
- 0.0 SFBB POI TIME IN SECONDS, SURFACE FLASH BASE BURN STARTING AT THE POINT OF IMPINGEMENT.
- SF PW 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.
- SF POI SURFACE FLASH, AT POINT OF IMPINGEMENT ONLY(EQUIVALENT TO "DID NOT IGNITE" FOR PLAIN SURFACE).

### END OF TEST REPORT ###



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