

# Test Report

Report No.: JC17052708703

Date: June 09, 2017

**Applicant** : JOZWIAK S.C.  
**Attn** : /

**The following information is declared by the applicant :**

Sample Description : One Sample of Woven Fabric  
Composition : W50P50  
Style No. : EISACK/SHARK  
End Uses : Suit  
Export To : Poland  
Date Receive : May 27, 2017

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Test item	Result
Care Labeling Code of Textile	A
Color Fastness to Light	#
Dimensional Stability to Steam	#
Color Fastness to Perspiration	#
Color Fastness to Rubbing	#
Fabric Weight	#
Fabric Width	#
Tensile Strength	#
Seam Slippage	#
Pilling Resistance	#
Abrasion Resistance	#
Yarn Counts	#
Fiber Content	#
Stretch Properties of Fabrics	#

Note:#=No Specified Requirement, No Comment

Test result: Please Refer to the Following Page(s)

Conclusion	Result
Care Labeling Code of Textile	A
Dimensional Stability to Washing	*
Dimensional Stability to Drycleaning	#
Appearance after Washing	#
Appearance after Drycleaning	#
Color Fastness to Washing	#
Color Fastness to Dry Cleaning	#
Color Fastness to Hot Pressing	#
Color Fastness to Non-Chlorine Bleach	#

Note: #= No Specified Requirement, No Comment

\*=Based Upon The Test Results Reported, We Recommend The Care Instruction Of The Sample As Following:



---Maximum washing temperature 40°C  
normal process



---Only non-chlorine bleach allowed



-- Tumble drying possible  
low temperature, exhaust temperature max.60°C



---Iron at maximum sole-plate temperature of 110 °C



--- Professional dry cleaning in tetrachloroethene and all solvents listed for the symbol F  
Normal process

**Test results:****Care Labeling Code of Textile**

(Please Refer to The Conclusion of This Report)

Dimensional Stability to Washing (ISO 3759:2011/ISO 5077:2007/ISO 6330:2012(E); Wascator Washing Machine-Front-Loading Horizontal Rotating Drum Type Machine; Test program No.4N ;machine wash at 40°C with 2kg Load, in 20g ECE reference detergent 98 without optical brightener, Normal cycle, Tumble dry)

	A	<u>Requirement</u>
Warp(%)	-0.5	/
Weft(%)	-0.9	/
Remark: (+) Means Extension      (-) Means Shrinkage		

Dimensional Stability to Drycleaning(ISO 3175-2: 2010)

	A	<u>Requirement</u>
Warp(%)	-0.2	/
Weft(%)	-0.6	/
Remark: (+) Means Extension      (-) Means Shrinkage		

Appearance after Washing (Washing Condition: ISO 6330:2012(E), Wascator Washing Machine-Front -Loading Horizontal Rotating Drum Type Machine; Test program No.4N ;machine wash at 40°C with 2kg Load, in 20g ECE reference detergent 98 without optical brightener, Normal cycle, Tumble dry)

	A	<u>Requirement</u>
<u>After One wash</u>		
Color Change	4-5	/
Pilling	4-5	/
Observed defects	No obvious defects affecting the end product appearance .	/

Conclusion:

--General appearance of the washed sample is satisfactory.

## Appearance after Drycleaning (ISO 3175.2-2010)

		A	Requirement
<u>After One Drycleaning</u>			
Color Change		4-5	/
Pilling		4-5	/
Observed defects	No obvious defects affecting the end product appearance.		/
Conclusion:			

--General appearance of the washed sample is satisfactory.

## Color Fastness to Washing (ISO 105-C06:2010; Test No. A2S; 30 minutes mechanical wash at 40 °C; with 4g/L ECE detergent and 1g/L sodium perborate solution with 10 steel balls.)

		A	Requirement
Color Change		4-5	/
Staining-Acetate		4-5	/
Staining-Cotton		4-5	/
Staining-Nylon		4-5	/
Staining-Polyester		4-5	/
Staining-Acrylic		4-5	/
Staining-Wool		4-5	/

Remark: Grey Scale Rating is based on the 5-step scale of 1 to 5, where 1 is bad and 5 is good.

## Color Fastness to Dry Cleaning (ISO 105-D01:2010)

		A	Requirement
Color Change		4-5	/
Staining-Acetate		4-5	/
Staining-Cotton		4-5	/
Staining-Nylon		4-5	/
Staining-Polyester		4-5	/
Staining-Acrylic		4-5	/
Staining-Wool		4-5	/

Remark: Grey Scale Rating is based on the 5-step scale of 1 to 5, where 1 is bad and 5 is good.

## Color Fastness to Hot Pressing(ISO 105-X11: 1994, Temperatures:110°C)

	A	Requirement
Dry pressing		
Color change at once	4-5	/
Color change after 4 h	4-5	/
Damp pressing		
Color change at once	4-5	/
Color change after 4 h	4-5	/
Staining on cotton adjacent	4-5	/
Wet pressing		
Color change at once	4-5	/
Color change after 4 h	4-5	/
Staining on cotton adjacent	4-5	/

Remark: Grey Scale Rating is based on the 5-step scale of 1 to 5, where 1 is bad and 5 is good.

## Color Fastness to Non-Chlorine Bleach (AATCC TS-001)

	A	Requirement
Color Change	4.5	/

Remark: Grey Scale Rating is based on the 5-step scale of 1 to 5, where 1 is bad and 5 is good.

## Color Fastness to Light(ISO 105-B02: 2014, Exposure cycle A1; Method 3, Wind cooled; Xenon-Arc Lamp, Target Blue Wool Reference 4.)

	A	Requirement
Color Change	above 4	/

Remark: Blue wool rating is based on the 8-step scale of 1 to 8, where 1 is bad and 8 is good.

## Dimensional Stability to Steam (ISO 3005:1978)

	A	Requirement
Warp(%)	-0.8	/
Weft(%)	-0.8	/

Remark: (+) Means Extension      (-) Means Shrinkage

## Color Fastness to Perspiration(ISO 105-E04: 2013)

	A	Requirement
Acid		
Color Change	4-5	/
Staining-Acetate	4-5	/
Staining-Cotton	4-5	/
Staining-Nylon	4-5	/
Staining-Polyester	4-5	/
Staining-Acrylic	4-5	/
Staining-Wool	4-5	/
Alkalis		
Color Change	4-5	/
Staining-Acetate	4-5	/
Staining-Cotton	4-5	/
Staining-Nylon	4-5	/
Staining-Polyester	4-5	/
Staining-Acrylic	4-5	/
Staining-Wool	4-5	/

Remark: Grey Scale Rating is based on the 5-step scale of 1 to 5, where 1 is bad and 5 is good.

## Color Fastness to Rubbing(ISO 105-X12: 2016)

	A	Requirement
Dry staining		
Warp	4-5	/
Weft	4-5	/
Wet staining		
Warp	4-5	/
Weft	4-5	/

Remark: Grey Scale Rating is based on the 5-step scale of 1 to 5, where 1 is bad and 5 is good.

## Fabric Weight(ISO 3801: 1977)

	A	Requirement
Weight (g/m2)	197	/

## Fabric Width(ISO 22198: 2006)

	A	Requirement
Width (cm)	150	/

## Tensile Strength(ISO 13934-2: 2014,Grab Method; CRE testing machine)

	A	Requirement
Warp(N)	690	/
Weft (N)	270	/

## Seam Slippage(ISO 13936-1: 2004,CRE testing machine)

	A	Requirement
S.O.6mm		
Seam//Warp (N)	※	/
Seam//Weft (N)	※	/
Seam strength		
Seam//Warp (N)	>200 (YPO&FBS)	/
Seam//Weft (N)	>200 (STB)	/

Remark: S.O. 6 mm = Seam Open at 6 mm

YPO= Yarn Pull Out

STB = Sewing Thread Broken

FBS=Fabric Broken at seam

※ = The Seam Opening Was Less Than 6mm Though The Ultimate Seam Strength Was Found As Stated.

## Pilling Resistance(ISO 12945-2: 2000,Martindale Tester)

	A	Requirement
After 125 cycles	4-5	/
After 500 cycles	4-5	/
After 1000 cycles	4-5	/
After 2000 cycles	4-5	/
After 5000 cycles	4-5	/
After 7000 cycles	4-5	/

Remark: Pilling Rating

5---No change

4---Slight surface fuzzing and/ or partially formed pills

3---Moderate surface fuzzing and/ or moderate pilling. Pills of carrying size and density partially covering the specimen surface.

2---Distinct surface fuzzing and/ or distinct pilling. Pills of varying size and density covering a large proportion of the specimen surface.

1---Dense surface fuzzing and /or severe pilling, Pills of size and density covering the whole of the specimen surface.

## Abrasion Resistance(ISO 12947-2: 1998,Martindale Tester)

	A	Requirement
End point (cycles)	>30000	/

## Yarn Counts(ISO 7211-5: 1984)

	A	Requirement
Warp	10.5tex×2 (56.2S/2)	/
Weft	11.0tex×2 (53.9S/2)	/

## Fiber Content(FZ/T 01057.2~4-2007, ISO 1833-4: 2006)

	A	Requirement
Wool	50.1%	/
Polyester	49.9%	/

Remark: Moisture regain of Polyester 1.5% &amp; Wool 18.25%

(Based on (EU) No 1007/2011)



## Stretch Properties of Fabrics(BS EN 14704-1: 2005,Method A, Strip Test, Load 30N)

Weft	A	Requirement
Elongation (%)	11.4	/
Un-recovered elongation(1min)(%)	1.0	/
Un-recovered elongation(30min)(%)	0.8	/
Recovered elongation(1min)(%)	99.0	/
Recovered elongation(30min)(%)	99.2	/

Remark: The gauge length=200mm.



Sample A

The results shown here refer only to the sample(s) tested unless otherwise stated. The report can't be reproduced partly, except in full.