

Job No.:/

Report No.: HQ161040XXX

Date: Apr. 22, 2016


Applicant: XX

XX

Contact(s): XX

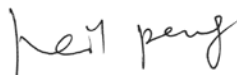
<b>Overall Rating:</b>	
Data	<input type="checkbox"/>
Satisfactory	<input type="checkbox"/>
Unsatisfactory	<input type="checkbox"/>
Others, See Detail Enclosed	<input checked="" type="checkbox"/>

## Sample Information

	Client:	XX
	Supplier:	XX
	PO. No.:	XX
	Sample Description:	1.Quilted Sham(3pcs-1-A,1-B, 1-C) 2.Coverlet(2pcs-2-A,2-B) 3.Fabric --3-A.Linen;--3-B.Aqua;--3-C.Cafe;--3-D.Charcoal --3-E.Indigo;--3-F.Merlot
	Color:	linen, aqua, cafe, charcoal, indigo, merlot
	Fiber Content:	100% Polyester
	End Uses:	coverlet, quilted sham
	Program No.:	XX
	Customer:	XX
	Sample Submitted:	3 pcs of quilted shams,2 pcs of coverlets,6 colors of fabric by applicant in good condition.
	Care Label:	Machine wash cold with like colors, gentle cycle; Do not bleach; Tumble dry low; Remove promptly; Iron on low; Do not dry clean.
	Country of Origin:	China
	Country of Destination:	Canada
	Received Date:	Apr.18, 2016
	Testing Period:	Apr. 18, 2016 to Apr.22, 2016
Service Location:	Hangzhou	
Remark:	/	

\*\*\*\*\*To be Continued

Authorized by:  
HQTS QA International Services Co., Ltd.



Neil Peng  
Supervisor

**Testing Summary of Tested Component on Submitted Sample:**

Sample(s)	1-A	1-B	2-A	2-B	3-A	3-B	3-C	3-D	3-E	3-F
1 Dimensional Stability to Washing	P	/	/	/	/	/	/	/	/	/
2 Appearance Retention after Laundering	P	/	P	/	/	/	/	/	/	/
3 Color Fastness to Crocking	/	/	/	/	P	P	P	P	P	P
4 Color Fastness to Light	/	/	/	/	P	P	P	P	P	P
5 Color Fastness to Actual Laundering	P	/	/	/	/	P	P	P	P	P
6 Color Fastness to Perspiration	/	/	/	/	P	P	P	P	P	P
7 Color Fastness to Water	/	/	/	/	P	P	P	P	P	P
8 Tearing Strength	/	/	/	/	#	/	/	/	/	/
9 Tensile Strength	/	/	/	/	#	/	/	/	/	/
10 Bursting Strength	/	/	/	/	#	/	/	/	/	/
11 Seam Strength	/	#	/	/	#	/	/	/	/	/
12 Pilling Resistance by Martindale	/	/	/	/	P	/	/	/	/	/
13 Fabric Construction	/	/	/	/	#	/	/	/	/	/
14 Fabric Weight per Unit Area	/	/	/	/	#	/	/	/	/	/
15 Fiber Composition	/	/	/	/	P	/	/	/	/	/
16 Flammability	/	/	/	/	P	/	/	/	/	/

Remark:

P=Pass.

#=No Comment.

/= Not Tested.

\*\*\*\*\*To be Continued

## 1 Dimensional Stability to Washing

AATCC 150:2012; machine washing at 27 degree C, gentle cycle, with 1993 AATCC standard reference detergent, tumble dry low, After three washing cycles

		1-A	Requirement
Length (%)	:	-1.2	-3~+1
Width (%)	:	-0.6	-3~+1
Comment	:	Pass	

Remark:

(+) means extension (-) means shrinkage (neg) means negligible

## 2 Appearance Retention after Home Laundering

After 3 washing cycles, Machine washing at 27°C, gentle cycle, with 1993 AATCC standard reference detergent, tumble dry low

		1-A
Observation	:	<p>1.Slight color change was found on the washed sample and the grade is 4.0;</p> <p>2.No obvious pilling or fuzzing was found on the washed sample;</p> <p>3.No obvious creases were found on the fabric;</p> <p>4.Slight puckers were found along the stitchings;</p> <p>5. No obvious matting or bunching of padding was found;</p> <p>6. No obvious padding fibers were found penetrating through the face of the fabric</p> <p>7. No breakage was found on the washed sample.</p>
Comment	:	The general appearance of the washed sample was satisfactory.

After 3 washing cycles, Machine washing at 27°C, gentle cycle, with 1993 AATCC standard reference detergent, tumble dry low, Using large capacity commercial washer

		2-A
Observation	:	<p>1.Slight color change was found on the washed sample and the grade is 4.0;</p> <p>2.Slight pilling or fuzzing was found on the washed sample;</p> <p>3.Slight creases were found on the fabric;</p> <p>4.Slight puckers were found along the cord and the stitchings;</p> <p>5. No obvious matting or bunching of padding was found;</p> <p>6. No obvious padding fibers were found penetrating through the face of the fabric</p> <p>7. No breakage was found on the washed sample.</p>
Comment	:	The general appearance of the washed sample was satisfactory.

\*\*\*\*\*To be Continued

### 3 Color Fastness to Crocking

AATCC 8:2013

	3-A	3-B	3-C	3-D	3-E	3-F	Requirement
Dry(grade) :	4.5	4.5	4.5	4.5	4.5	4.5	Min 4.0
Wet(grade) :	4.5	4.5	4.5	4.5	4.5	4.5	Min 3.0
Comment :	Pass	Pass	Pass	Pass	Pass	Pass	

Remark: Grade 1– The Worst, Grade 3- Middle Grade, Grade 5– The Best

Source Light: D65

### 4 Color Fastness to Light

AATCC 16.3:2014, Option 3, water cooled, xenon-arc lamp,20 AFU Exposure

	3-A	3-B	3-C	3-D	3-E	3-F	Requirement
Grade :	3.5	4.5	3.5	3.5	3.5	4.0	Min 3.5
Comment :	Pass	Pass	Pass	Pass	Pass	Pass	

Remark: Grade 1– The Worst, Grade 3- Middle Grade, Grade 5– The Best

Source Light: D65

### 5 Color Fastness to Actual Laundering

After 1 washing cycle and 3 washing cycles, Machine washing at 27°C, gentle cycle, with 1993 AATCC standard reference detergent, tumble dry low

	1-A	3-B	3-C	3-D	3-E	3-F	Requirement
Color Change(grade) :	4.0	4.0	4.0	4.0	4.0	4.0	Min 4.0
Color Staining(grade)							
Acetate :	4.5	4.5	4.5	4.5	4.5	4.5	Min 3.0
Cotton :	4.0	4.0	4.0	4.0	4.0	4.0	Min 3.0
Polyamide :	4.5	4.5	4.5	4.5	4.5	4.5	Min 3.0
Polyester :	4.5	4.5	4.5	4.5	4.5	4.5	Min 3.0
Acrylic :	4.5	4.5	4.5	4.5	4.5	4.5	Min 3.0
Wool :	4.5	4.5	4.5	4.5	4.5	4.5	Min 3.0
Comment :	Pass	Pass	Pass	Pass	Pass	Pass	

Remark: Grade 1– The Worst, Grade 3- Middle Grade, Grade 5– The Best. Source Light: D65

Color Staining was assessed after 1 washing cycle. Color Change and Cross-staining was assessed after 3 washing cycles.

\*\*\*\*\*To be Continued

## 6 Color Fastness to Perspiration

AATCC 15:2013(E2014)

	3-A	3-B	3-C	3-D	3-E	3-F	Requirement
Color Change(grade) :	4.5	4.5	4.5	4.5	4.5	4.5	Min 4.0
Color Staining(grade)							
Acetate :	4.5	4.5	4.5	4.5	4.5	4.0	Min 3.0
Cotton :	4.5	4.5	4.5	4.5	4.5	4.0	Min 3.0
Polyamide :	4.5	4.5	4.5	4.5	4.5	4.0	Min 3.0
Polyester :	4.5	4.5	4.5	4.5	4.5	4.0	Min 3.0
Acrylic :	4.5	4.5	4.5	4.5	4.5	4.5	Min 3.0
Wool :	4.5	4.5	4.5	4.5	4.5	4.0	Min 3.0
Comment :	Pass	Pass	Pass	Pass	Pass	Pass	

Remark: Grade 1– The Worst, Grade 3- Middle Grade, Grade 5– The Best. Source Light: D65

## 7 Color Fastness to Water

AATCC 107:2013

	3-A	3-B	3-C	3-D	3-E	3-F	Requirement
Color Change(grade) :	4.5	4.5	4.5	4.5	4.5	4.5	Min 4.0
Color Staining(grade)							
Acetate :	4.5	4.5	4.5	4.5	4.5	3.5	Min 3.0
Cotton :	4.5	4.5	4.5	4.5	4.5	4.0	Min 3.0
Polyamide :	4.5	4.5	4.5	4.5	4.5	3.5	Min 3.0
Polyester :	4.5	4.5	4.5	4.5	4.5	4.0	Min 3.0
Acrylic :	4.5	4.5	4.5	4.5	4.5	4.0	Min 3.0
Wool :	4.5	4.5	4.5	4.5	4.5	3.5	Min 3.0
Comment :	Pass	Pass	Pass	Pass	Pass	Pass	Min 4.5

Remark: Grade 1– The Worst, Grade 3- Middle Grade, Grade 5– The Best. Source Light: D65

\*\*\*\*\*To be Continued

## 8 Tearing Strength

ASTM D 1424:2009(2013), elmendorf method

	3-A	Requirement
Warp (lbf) :	>3.6	/
Weft (lbf) :	>3.6	/
Comment :	Actual Finding	

Remark:

1 lbf=4.45 N

Warp test—test in which the warp yarn was torn.

Weft test—test in which the weft yarn was torn.

## 9 Tensile Strength

ASTM D 5034:2009(2013),Grab Test, CRE Machine

	3-A	Requirement
Warp (lbf) :	94.5	/
Weft (lbf) :	49.3	/
Comment :	Actual Finding	

Remark:

1 lbf=4.45 N

## 10 Bursting Strength

ASTM D3786/D3786M:2013

	3-A	Requirement
Bursting Strength(kPa/psi) :	>552/>80.0	/
Comment :	Actual Finding	

Remark:

1 kPa=0.145psi

\*\*\*\*\*To be Continued

## 11 Seam Strength

ASTM D1683/1683M:2011a,CRE machine

	3-A	1-B*	Requirement
Seam/Warp(lbf)	: 42.0(FR)	/	/
Seam/Weft(lbf)	: 66.5(STB)	/	/
Seam on Length(lbf)	: /	41.5(STB)	/
Seam on Height(lbf)	: /	46.4(STB)	/
Comment	: Actual Finding	Actual Finding	

Remark:

STB=Sewing Thread Breakdown.

FR=Fabric Rupture.

1lbf=4.45N

\*= Test on provided seam only.

## 12 Pilling Resistance by Martindale

ASTM D4970/4970M:2010, Martindale Abrasion Tester,100 revolutions

	3-A	Requirement
Grade	: 3.5	Min 3.5
Comment	: Pass	

Remark:

5-no pilling

4-slight pilling

3-moderate pilling

2-severe pilling

1-very severe pilling

\*\*\*\*\*To be Continued

**13 Fabric Construction**

ASTM D3775:2012

	3-A	Requirement
Warp(ends/inch) :	99	/
Weft(picks/inch) :	64	/
Total T/C :	163	
Comment :	Actual Finding	

**14 Weight per Unit Area**

ASTM D3776/D3776M:2009a(2013), Option C

	3-A	Requirement
oz/yd <sup>2</sup> :	2.80	/
g/m <sup>2</sup> :	94.9	/
Comment :	Actual Finding	

Remark:

1 oz/yd<sup>2</sup> = 1g/m<sup>2</sup> /33.906

**15 Fiber Composition**

AATCC 20:2013

	3-A	Requirement
Polyester (%) :	100.0	100% ± 0%
Comment :	Pass	

\*\*\*\*\*To be Continued



**15 Flammability**

CAN/CGSB-4.2 No.27.5-94

Sample 3-A : <input checked="" type="checkbox"/> Plain Surface <input type="checkbox"/> Raised Surface							
Original State				Refurbishment State (After One Drycleaning& Laundering)			
Preliminary Trial				Preliminary Trial			
<input checked="" type="checkbox"/> Face	Burn Time (sec.)	Burn Code	Determinate Direction	<input checked="" type="checkbox"/> Face	Burn Time (sec.)	Burn Code	Determinate Direction
<input type="checkbox"/> Back				<input type="checkbox"/> Back			
Length(up)	/	DNI*	<input checked="" type="checkbox"/>	Length(up)	/	DNI*	<input checked="" type="checkbox"/>
Length(down)	/	DNI*	<input type="checkbox"/>	Length(down)	/	DNI*	<input type="checkbox"/>
Width(left)	/	DNI*	<input type="checkbox"/>	Width(left)	/	DNI*	<input type="checkbox"/>
Width(right)	/	DNI*	<input type="checkbox"/>	Width(right)	/	DNI*	<input type="checkbox"/>
Sequence Test After Preliminary Trial				Sequence Test After Preliminary Trial			
No.	Burn Time (sec.)	Burn Code		No.	Burn Time (sec.)	Burn Code	
1	/	DNI*		1	/	DNI*	
2	/	DNI*		2	/	DNI*	
3	/	DNI*		3	/	DNI*	
4	/	DNI*		4	/	DNI*	
5	/	DNI*		5	/	DNI*	
Average	/	DNI*		Average	/	DNI*	
Result	Safe Product			Result	Safe Product		
Requirement	>7.0sec						
Comment	Pass						
Remark:							
DNI= Did not ignite.							
*=Fusion was found during the testing.							
According to the Canadian Hazardous Product Act Schedule 1 Part 1 Point 13, the product with a time of flame spread of more than 7 seconds can be classified as Safe Product.							

\*\*\*\*\* End of Report