

Testing Report



Report No.: HQ2430101391

Applicant: JOYIN US CORP
315 W Elliot Rd #107- 168 Tempe, AZ 85284

Contact(s): Zhengweina

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

Sample Information



Description:	31930 Unicorn second round fabric
Sample Submitted:	1pc of fabric in good condition was provided by applicant
Status:	Initial
Country of Origin:	China
Received Date:	Jan.23,2024
Testing Period:	Jan.23,2024 to Jan.25,2024
Testing Standard:	Selected tests as requested by applicants,details refer to following pages.
Service Location:	Hangzhou
Remark:	/

*****To be Continued

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Testing Summary of Tested Component on Submitted Sample:

Sample(s)

1	Color Difference Evaluation	Pass
2	Color Fastness to Laundering	Pass
3	Color Fastness to Dry Cleaning	Pass
4	Color Fastness to Water	Pass
5	Color Fastness to Perspiration	Pass
6	Color Fastness to Crocking	Pass
7	Color Fastness to Light	Pass

*****To be Continued

HQTS QA International Services Co., Ltd.

Approved by

Marry Chen

Issued Date: 2024-01-25

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1 Color Difference Evaluation

AATCC TM173-2009(2015)e2 Rating light resource:D65 CMC:2:1,Standard Observer:10degree System:CIE LCH

	Fabric	Requirement
Color difference ΔE_{cmc}	0.46	/
Color difference(Grade)	4.5	Min 4.0
Comment	Pass	

2 Color Fastness to Laundering

AATCC TM61-2013e(2020)e2 2A method, modified, mechanical wash at 40degree C, with 1993 AATCC standard reference detergent WOB(without optical brightener and without phosphate),with 50 steel balls

	Fabric	Requirement
Color Change(Grade)	4.5	Min 4.0
Color Staining(grade)		
Acetate	4.5	Min 4.0
Cotton	4.5	Min 4.0
Nylon	4.5	Min 4.0
Polyester	4.5	Min 4.0
Acrylic	4.5	Min 4.0
Wool	4.5	Min 4.0
Cross Staining(Grade)	4.5	Min 4.0
Comment	Pass	

Remark:

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

Source Light: D65

*****To be Continued

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3 Color Fastness to Dry Cleaning

AATCC TM132-2004e3(2013)e3

	Fabric	Requirement
Color Change(grade)	4.5	Min 4.0
Color Staining(grade)		
Acetate	4.5	Min 4.0
Cotton	4.5	Min 4.0
Polyamide	4.5	Min 4.0
Polyester	4.5	Min 4.0
Acrylic	4.5	Min 4.0
Wool	4.5	Min 4.0
Cross Staining(grade)	4.5	Min 4.0
Comment	Pass	

Remark:

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

Source Light: D65

*****To be Continued

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4 Color Fastness to Water

AATCC TM107-2022e

	Fabric	Requirement
Color Change(grade)	4.5	Min 4.0
Color Staining(grade)		
Acetate	4.5	Min 4.0
Cotton	4.5	Min 4.0
Nylon	4.5	Min 4.0
Polyester	4.5	Min 4.0
Acrylic	4.5	Min 4.0
Wool	4.5	Min 4.0
Cross Staining(grade)	4.5	Min 4.0
Comment	Pass	

Remark:

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

Source Light: D65

*****To be Continued

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5 Color Fastness to Perspiration

AATCC TM15-2021

	Fabric	Requirement
Color Change(Grade)	4.5	Min 4.0
Color Staining(grade)		
Acetate	4.5	Min 4.0
Cotton	4.5	Min 4.0
Nylon	4.5	Min 4.0
Polyester	4.5	Min 4.0
Acrylic	4.5	Min 4.0
Wool	4.5	Min 4.0.
Cross Staining(grade)	4.5	Min 4.0
Comment	Pass	

Remark:

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

Source Light: D65

6 Color Fastness to Crocking

AATCC TM8-2016e

	Fabric	Requirement
Dry(Grade)	4.5	Min 4.0
Wet(Grade)	4.5	Min 4.0
Comment	Pass	

Remark:

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

Source Light:D-65

*****To be Continued

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7 Color Fastness to Light

AATCC TM16.3-2020 Option 3, air cooled, xenon-arc lamp,20 AFU Exposure

	Fabric	Requirement
Grade	4.5	Min 4.0
Comment	Pass	

Remark:

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

Source Light: D65

*****End of Report