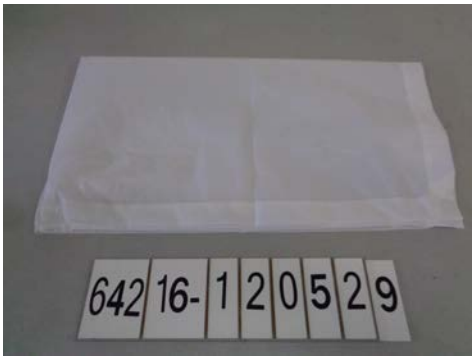
TEST REPORT

Report No. : 64216-120529R1 **Date : Dec 20, 2016** **Page : 1 of 11**

Applicant : LUCFETTE CO., LTD
Address: ROOM 3008, 1th BUILDING DREAM VALLEY
Attn: TINA/ALICE

Sample Description : Two (2) PCS Of Cozy Shade Sample said to be: 170 T Polyester With PA Coating



Sample Color	:	White
Fiber Content	:	/
Fabric Weight	:	/
Finishing	:	/
Dye Used	:	/
End Uses	:	Cozy Shade / Sensory Canopy
Style No.	:	49001
Order No.	:	703289
Ref. No.	:	/
Season	:	/
Country of Destination	:	USA
Manufacturer	:	Lucfette
Buyer	:	/
Standard No.	:	/
Specification	:	/
Previous Report No.	:	/

Sample Reception/Test Performance : Dec 08, 2016/ Dec 08, 2016 – Dec 20, 2016

Revised Date : Mar 22, 2017

Provided Care Instruction : /

Test Performance & Results : Please refer to the following pages for the tests performed in accordance with the applicant's request and their results.

For and on behalf of
Modern Testing Services Co., Ltd.

Bob Tong

Bob Tong
Softline Division Manager

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This report is the amendment of 64216-120529 dated on Dec 20, 2016

Modern Testing Services Co., Ltd.
No. 105 Guangzhong Rd., Zhuanqiao Town, Minhang, Shanghai, China P.R.C.201108
Tel: (86) 21-23509600 Fax: (86) 21-23509700 Email: infosh@mts-global.com Website : www.mts-global.com

TEST SUMMARY			
Sample(s):			
Flammability For Tent/ Canopy Material (CPAI-84) (WALL/TOP)	P		
Flammability For Tent/Canopy Material (Hazardous Products (Tents) Regulation SOR/90-245)	P		
Total Lead Content	P		
Fire Tests for Flame Propagation of Textiles and Films (NFPA 701)	P		

Abbreviation:
P = Meet the Customer's Requirement
F = Below the Customer's Requirement
M = Pass With Label Change
# = See Report For Test Data
- = Not Requested

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TEST SUMMARY: **REQUIREMENT**

FLAMMABILITY For Tent/ Canopy Material (CPAI-84) (WALL/TOP)

TEST CODE	TESTED PROPERTY	REQUIREMENT	RESULTS		COMMENTS
			Pass	Fail	
CPAI-84 Section 6	Camping Tennage material flammability - Original (Wall and Top Material)	Original (See Test Results/ Requirements). Note: The test specimens can be finished material still on the roll or product in final form.	X		See Below Results
CPAI-84 Section 6	Camping Tennage material flammability - Leached (Wall and Top Material)	Leached (See Test Results/ Requirements). Note: The test specimens can be finished material still on the roll or product in final form.	X		See Below Results
CPAI-84 Section 6	Camping Tennage material flammability - Weathered (Wall and Top Material)	Weathered (See Test Results/ Requirements). Note: The test specimens can be finished material still on the roll or product in final form.	X		See Below Results
CPAI- 84 Section 6	Performance Wall/Top	Max. Char Length of Any Individual Specimen is 255 mm, Average Char Length is based on Material Weight see below: Weight (G/SqM) Max. Ave Char Length (mm) > 340 115 >270 – 340 140 >200 – 270 165 >135 – 200 190 >50 – 135 215* 50 or less 230* Max. after Flame of any individual specimen Is 4.0 seconds, Ave after flame of all Specimen shall Not Exceed 2.0 Seconds. *Lightweight fabric mass loss criteria Any wall or top material with a mass of less than 100 g/m2 will be considered acceptable if the mass loss during the test is no greater than 5% of the original test specimen mass, regardless of the damaged length measurement.	-- --		--

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TEST CODE	TESTED PROPERTY	REQUIREMENT	RESULTS		COMMENTS
			Pass	Fail	
	Exemption	"No-see-um" type netting or mesh materials weighing 50 g/m2 or less are exempted from the flammabiltiy requirement of CPAI-84. The netting material has not been shown to add appreciably to the flammability of tent.	--	--	--
	Loads for determining damaged length	Untreated weight (g/m2) Total tear force (g) ≤100 50 >100 and ≤200 100 >200 and ≤ 340 200 > 340 350	--	--	--
	Material Weight	Report actual in both Oz/Sq.Yd and Grms/Sq.Meter	--	--	1.15 oz/yd^2 (39.03g/ m^2)
		Max. Average Char Length (mm)	--	--	--
	Material Type: Color				--
	Original (mm/Sec)				
Warp	1		X		128/0.0
	2		X		125/0.0
	3		X		117/0.0
	4		X		120/0.0
	Average		X		123/0.0
Fill	1		X		116/0.0
	2		X		109/0.0
	3		X		115/0.0
	4		X		112/0.0
	Average		X		118/0.0
	Leached (mm/Sec)				
Warp	1		X		123/0.0
	2		X		129/0.0
	3		X		127/0.0
	4		X		122/0.0
	Average		X		125/0.0
Fill	1		X		120/0.0
	2		X		118/0.0
	3		X		123/0.0
	4		X		113/0.0
	Average		X		122/0.0
	Weathering (mm/Sec)				

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TEST CODE	TESTED PROPERTY	REQUIREMENT	RESULTS		COMMENTS
_			Pass	Fail	
Warp	1		X		117/0.0
	2		X		122/0.0
	3		X		125/0.0
	4		X		120/0.0
	Average		X		121/0.0
Fill	1		X		116/0.0
	2		X		125/0.0
	3		X		119/0.0
	4		X		117/0.0
	Average		X		120/0.0

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Flammability For Tent/Canopy Material (Hazardous Products (Tents) Regulation SOR/90-245)

TEST CODE	TESTED PROPERTY	REQUIREMENT	RESULTS		COMMENTS
			Pass	Fail	
Hazardous Products (Tents) Regulations (SOR/90-245)	Camping Tennage material flammability - Original (Wall and Top Material)	Original (See Test Results/ Requirements). Note: The test specimens can be finished material still on the roll or product in final form.	X		See Below Results
Hazardous Products (Tents) Regulations (SOR/90-245)	Camping Tennage material flammability - Leached (Wall and Top Material)	Leached (See Test Results/ Requirements). Note: The test specimens can be finished material still on the roll or product in final form.	X		See Below Results
Hazardous Products (Tents) Regulations (SOR/90-245)	Camping Tennage material flammability - Weathered (Wall and Top Material)	Weathered (See Test Results/ Requirements). Note: The test specimens can be finished material still on the roll or product in final form.	X		See Below Results
Hazardous Products (Tents) Regulations (SOR/90-245)	Performance Wall/Top	Max. Char Length of Any Individual Specimen is 255 mm, Average Char Length is based on Material Weight see below: Weight (G/SqM) Max. Ave Char Length (mm) > 340 115 271 – 340 140 201 – 270 165 136 – 200 190 51 – 135 215 50 or less 230 Max. after Flame of any individual specimen Is 4.0 seconds, Ave after flame of all Specimen shall Not Exceed 2.0 Seconds.	--	--	--

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TEST CODE	TESTED PROPERTY	REQUIREMENT	RESULTS		COMMENTS
			Pass	Fail	
	Loads for determining damaged length	Untreated weight (g/m2) / Total tear force (g) less than100 50 101 to 200 100 201 to 340 200 greater than 340 300	--	--	--
	Material Weight	Report actual in both Oz/Sq.Yd and Grms/Sq.Meter	--	--	1.15 oz/ yd^2 (39.03 g/ m^2)
		Max. Average Char Length (mm)	--	--	/
	Material Type: Color				/
	Original (mm/Sec)				/
Warp	1		X		128/0.0
	2		X		125/0.0
	3		X		117/0.0
	4		X		120/0.0
Fill	1		X		116/0.0
	2		X		109/0.0
	3		X		115/0.0
	4		X		112/0.0
	Average		X		118/0.0
	Leached (mm/Sec)				
Warp	1		X		123/0.0
	2		X		129/0.0
	3		X		127/0.0
	4		X		122/0.0
Fill	1		X		120/0.0
	2		X		118/0.0
	3		X		123/0.0
	4		X		113/0.0
	Average		X		122/0.0
	Weathering (mm/Sec)				
Warp	1		X		117/0.0
	2		X		122/0.0
	3		X		125/0.0
	4		X		120/0.0
Fill	1		X		116/0.0
	2		X		125/0.0
	3		X		119/0.0
	4		X		117/0.0
	Average		X		120/0.0

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TEST RESULTS:

ANALYTICAL

COMPONENT BREAKDOWN LIST:

Test Item	Component Description
A1	White/black coating (on label)
A2	Silver metal (magnet)
A3	White woven fabric (body)

TEST RESULT:

Total Lead Content – Client's Limit

Test Item	Total Lead (Pb) (mg/kg)		Conclusion
	Result	Client's Limit	
A1	13	90	PASS
A2	<10	100	PASS
A3	<10	100	PASS

Method: Sample was digested with nitric acid and analyzed by Atomic Absorption Spectrophotometer / Inductively Coupled Argon Plasma Spectrometer / Inductively Coupled Plasma Mass Spectrometer.
With reference to ASTM E1613 / E1645 and analyzed by Atomic Absorption Spectrophotometer / Inductively Coupled Argon Plasma Spectrometer / Inductively Coupled Plasma Mass Spectrometer

Note: mg/kg = milligram per kilogram
"<" = less than

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TEST RESULTS:

Fire Tests for Flame Propagation of Textiles and Films (Initial stage)

Ref.: NFPA 701-2015 Edition: Test Method #1

Test Item: A3

Specimen	After flame (Second)	Flaming Drip (Second)	Weight Loss (Percent)	Flame Projects Above Top of Specimen (Yes/No)
1	Nil	Nil	24.9	No
2	Nil	Nil	27.7	No
3	Nil	Nil	20.0	No
4	Nil	Nil	22.1	No
5	Nil	Nil	7.7	No
6	Nil	Nil	11.0	No
7	Nil	Nil	14.5	No
8	Nil	Nil	24.6	No
9	Nil	Nil	15.6	No
10	Nil	Nil	18.4	No
		Mean: Nil	Mean: 18.7	

Note: All specimens prepared in the length direction.
Product Configuration: Single Layer
Statistical values: SD = 1.15 3 SD = 3.45 Mean + 3 SD = 22.2
Abbreviations Used: SD = Standard deviation
Approximate Weight of Material (as measured): 44.76 g/m²
Preconditioning: 0.5 hour @220oF (Standard)
Conversion Factor: g/m² ÷ 28.35×0.835 = 1.32 oz/yd²

Conclusion(s): The submitted sample complied with the performance criteria of NFPA 701-2015 Edition Test Method #1 at initial stage.

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TEST RESULTS:

The individual specimen weights as follows:			
Specimen	Weight Before test (g)	Weight After Test(g)	Percent Weight Loss
1	2.25	1.69	24.9
2	2.38	1.72	27.7
3	2.40	1.92	20.0
4	2.35	1.83	22.1
5	2.33	2.15	7.7
6	2.28	2.03	11.0
7	2.21	1.89	14.5
8	2.36	1.78	24.6
9	2.31	1.95	15.6
10	2.23	1.82	18.4

Mean percent Weight Loss:	18.7
Standard Deviation:	1.15
3 × Standard Deviation:	3.45
Mean + 3 ×Standard Deviation:	22.2
Comment:	Based on the test results and failure criteria, the item tested passes at initial stage.

Failure Criteria: As cited by NFPA 701-2010 Edition Test Method #1

	Weight Loss (percent)	
Flaming Drip Mean	Mean	Individual Specimen
Exceeds 2 seconds	Exceeds 40%	Exceed Mean + 3 SD

Remark: 1. NFPA 701 includes initial testing and testing after 3 dry cleans and 5 launderings for product claimed to be dry cleanable and washable, and water leaching for product expected to be suitable for outdoors.

2. NFPA 701-2015 Edition: Test Method #1 is designed for fabrics or other materials used in curtains, draperies, or other window treatments.

3. Test at initial stage requested by client.

-End Of Test Report-

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NOTE:

General question & concern: Abel Zeng
Customer Service Coordinator
(86)21 23509626
azeng@mts-global.com

Technical question & concern: Bob Tong
Softline Manager
(86)21 23509718
btong@mts-global.com