



**TEST REPORT**

**REPORT NUMBER: 100955462MID-002b**  
ORIGINAL ISSUE DATE: February 15, 2013  
REVISED DATE: NA

**EVALUATION CENTER**  
Intertek  
8431 Murphy Drive  
Middleton, WI 53562

**RENDERED TO:**  
**Dickson Saint Clair**  
**415 avenue de Savoie**  
**Saint Clair de la Tour**  
**38357 La Tour du Pin**  
**France**

PRODUCT EVALUATED: Arcade FR  
EVALUATION PROPERTY: CALIFORNIA REGULATIONS (TITLE 19, SEC. 1237) RELATING TO CALIFORNIA STATE FIRE MARSHAL'S FLAME RETARDANT PROGRAM

**Report for compliance of Arcade FR with the applicable requirements of the following criteria: Title 19, California Code of Regulations, Chapter 8, Section 1237.1 Test Method (Small Scale).**

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## 2 Introduction

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Intertek has conducted testing for Dickson Saint Clair, on Arcade FR to evaluate flame retardant chemicals, fabrics and application concerns. Testing was conducted in accordance with Title 19, California Code of Regulations, Chapter 8, Section 1237.1 (Small Scale). This evaluation began February 13, 2013 and ended February 13, 2013.

## 3 Test Samples

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### 3.1. SAMPLE SELECTION

Samples were submitted to Intertek directly from the client. Samples were not independently selected for testing. Samples were received at the Evaluation Center on December 26, 2012 in good condition.

### 3.2. SAMPLE AND ASSEMBLY DESCRIPTION

Arcade FR

500g/m<sup>2</sup> PVC coated polyester material

The test specimen identified as Sunblock was cut into 10 in. x 3.5 in samples by Intertek. The samples were cut in both the Warp and Fill directions of the material. Each was conditioned in an oven set at 140-145°F for 1 to 1.5 hours before testing.

## 4 Testing and Evaluation Methods

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### 4.1. TEST STANDARD

Ten specimens of material, 3.5 in. x 10 in. dimensions were prepared and then one-half of each set was cut with the long dimension parallel to the length direction (Warp) and five with the long dimension parallel to the width direction (Fill). If the specimen is to be used outdoors, the test specimens were subjected to accelerated weathering and water extraction procedures. The test specimens were conditioned at 140-145°F (60-63°C) for not less than one hour and not more than 1-1/2 hours before testing. If the test material melts or distorts at that temperature, then it was conditioned at 73°F and 50% r.h. for at least 24 hours. Specimens were removed from the oven one at a time and tested immediately. The specimen is placed on a metal holder and suspended vertically. A 1.5" flame is placed on the middle lower end for 12 seconds. After flame and char length measurements were recorded.

### 4.2. Test Criteria

The specimen shall not continue flaming for more than an average of 4 seconds after the burner is removed. The individual char length for each specimen beyond 6 inches is overall failure.

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## 5 Testing and Evaluation Results

### 5.1. Results and Observations

Environmental Conditions: 72°F and 50% r.h.

TEST RESULTS unleached and unweathered

12 Second Flame Exposure				
Specimen	Direction	Afterflame(s)	Afterglow(s)	Charlength(in)
1	Warp	2	0	4.45
2	Warp	1	0	4.37
3	Warp	2	0	4.48
4	Warp	1	0	3.97
5	Warp	1	0	4.56
Average		1.4	0	4.37

12 Second Flame Exposure				
Specimen	Direction	Afterflame(s)	Afterglow(s)	Charlength(in)
1	Fill	2	0	4.09
2	Fill	1	0	3.7
3	Fill	1	0	4.01
4	Fill	2	0	4.25
5	Fill	1	0	4.17
Average		1.4	0	4.04

TEST RESULTS leached but unweathered

12 Second Flame Exposure				
Specimen	Direction	Afterflame(s)	Afterglow(s)	Charlength(in)
1	Warp	2	0	4.8
2	Warp	2	1	3.7
3	Warp	1	0	4.5
4	Warp	2	0	4.68
5	Warp	1	1	4.44
Average		1.6	0.4	4.42

12 Second Flame Exposure				
Specimen	Direction	Afterflame(s)	Afterglow(s)	Charlength(in)
1	Fill	2	1	4.76
2	Fill	1	3	4.29
3	Fill	0	1	3.74
4	Fill	2	1	5
5	Fill	3	1	5.03
Average		1.6	1.4	4.56

TEST RESULTS weathered but unleached

12 Second Flame Exposure				
Specimen	Direction	Afterflame(s)	Afterglow(s)	Charlength(in)
1	Warp	2	0	3.89
2	Warp	3	0	4.56
3	Warp	2	0	3.66
4	Warp	2	0	4
5	Warp	2	0	3.3
Average		2.2	0	3.88

12 Second Flame Exposure				
Specimen	Direction	Afterflame(s)	Afterglow(s)	Charlength(in)
1	Fill	1	0	4.6
2	Fill	1	0	3.81
3	Fill	3	0	4.68
4	Fill	1	0	4.5
5	Fill	3	0	4.48
Average		1.8	0	4.41

### 5.2. Test Results and Observations

This specimen Passed the test criteria.

## 6 Conclusion

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Intertek has conducted testing for Dickson Saint Clair, on Arcade FR to evaluate flame retardant chemicals, fabrics and application concerns. Testing was conducted in accordance with Title 19, California Code of Regulations, Chapter 8, Section 1237.1 (Small Scale). This evaluation began February 13, 2013 and ended February 13, 2013.

Dickson Saint Clair's Arcade FR met all the criteria for California Title 19, California Code of Regulations, Chapter 8, Section 1237.1 (Small Scale)

The conclusions of this test report may not be used as part of the requirements for Intertek product certification. Authority to Mark must be issued for a product to become certified.

### INTERTEK



Reported by:

Sandy Osborne  
**Lab Technician II, Verification Center**



Reviewed by:

Mark Crawford  
**Chemist, Verification Center**

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## 7 Calibration

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<b>Equipment:</b>	<b>Equipment Number</b>	<b>Calibration Date</b>
Sportline Stop Watch	1251	3/17/13
Test Box Apparatus	1204	Calibrate at the time of testing

## 8 Revision Summary

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<b>DATE</b>	<b>SUMMARY</b>
February 15, 2013	Original Date of Issue

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