

Received: 12/22/2009 Completed: 01/14/2010 Letter: S3 rb P.O.#: Test Report #: 2-81590-3-RV

Client's Identification: Style: Holiday Flame Retardant Awning Fabric. Content: 100% Polyester. Width: 62". Finish: FR. Weight: 13.2 oz/yd<sup>2</sup>.  
End Use: Awning Fabric.

Tested For: **Key Test: CA 1237 Sm WL RVNC**  
Marchem CFI  
500 Orchard Street  
New Haven, MO 63068  
Tel: 1-(573)-237-4444 Ext:  
Fax: 1-( )- -

PC: 1H /jd

TEST PERFORMED: California Fire Marshal Title 19: Section 1237 (Proposed Revision 8/9/93) Fire Resistance; Small Scale Test - EXTERIOR MATERIALS QUALIFICATION

RESULTS REPORTED:  Initially  
 After 72 hours water leaching  
 After 100 hours weathering

RESULTS:	Specimen #	Afterflame (seconds)	Afterglow (seconds)	Char Length (inches)
Warp:	1	0.0	0	2.9
	2	0.0	0	2.9
	3	0.0	0	2.9
	4	0.0	0	2.8
	5	0.0	0	2.9
	Avg:	0.0		
Fill:	6	0.0	0	3.1
	7	4.0	0	2.9
	8	0.0	0	3.5
	9	0.0	0	3.2
	10	0.0	0	3.4
	Avg:	0.8		

APPROXIMATE WEIGHT OF MATERIAL (as measured by Govmark): 13.3 oz/yd<sup>2</sup>

ACCEPTANCE CRITERIA:

Afterflame: 4.0 seconds maximum avg for length or width  
Afterglow: (see Note #2 below)  
Char Length: 6.0" maximum for any individual specimen

Notes:

1. An asterisk (\*) next to any char length measurements indicates that a part of the char length is melt away due to heat from the flame source and not from propagating flame. Therefore, the sample submitted meets the requirements of Title 19 - California Code of Regulations, Section 1237 and 1237.1 for materials weighing less than 4 oz/yd<sup>2</sup>.
2. Afterglow is required to be reported; however, it is not factored into the Acceptance Criteria.



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CONCLUSION: Based on the above Results and Acceptance Criteria, the item tested:

Complies;     Does not comply

REMARKS: None.

NOTE: In August 1993 the State Fire Marshal issued a proposed revision, which permitted a maximum average afterflame of 4.0 seconds. This proposed revision was honored by the subsequent State Fire Marshal until approximately February 2004, at which time the State Fire Marshal's office reverted to the unrevised rule of 2.0 seconds maximum average for exterior fabric.

In a conversation with the latest California State Fire Marshal on August 9, 2007, it was learned that the proposed 1993 revision is now back in effect. In addition to allowing 4 seconds Afterflame rather than 2 seconds, the proposed revision provides for testing of 10 specimens, rather than 6 specimens. This information has been verified current per an August 26, 2009 conversation with the California State Fire Marshall.

CERTIFICATION: I certify that the above results were obtained after testing specimens in accordance with the procedures and equipment specified by California Fire Marshal Title 19: Section 1237 (Proposed Revision 8/9/93).

*Heather E. Robertson*

RV.01.22.10 /mg

AUTHORIZED SIGNATURE  
THE GOVMARK ORGANIZATION, INC. / ec

**MS. HEATHER ROBERTSON**

**JAN 26 2010**

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