

Received:09/11/2006 **Completed:**09/14/2006 **Letter:** D

96-D Allen Boulevard Farmingdale, New York 11735-5626 USA Tel. +1 (631) 293-8944 Fax +1 (631) 293-8956 e-mail: info@govmark.com

Test Report #:

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2-64134-0-

| Client's Identificatio | Busma | rk V4 | 00 FW (| Omagua A | | x 7 | | | | | | |
|--|--|---|---|--|--|---|-------------------|--------------------------|---|---|--|----------------|
| | n | | 001.00 | Spaque A | -58 90PF\ | N | | | | | | |
| Tested For: | Joann [| Dupre | | | | | | Key Test | t: ASTM E | E 162 | | 495 |
| | Flexcon | | | | | | | | | | | |
| | | | | k, Office | #4 | | | | 1 - (508) - (508) | | Ext: | |
| | Spencer, | MA U | 1302-20 | 42 | | | | гах | : 1-(508)- | 003-0399 | | |
| Category: | Radiant | t Pane | 1 | Spec | cifier: 5 | Fransit Gui | ideline | s & Regs | | PC: 24H+N | МЕ | |
| APPROXIMAT | 'E THICI | KNESS | OF MAT | ERIAL (| as measu | ured by Gov | /mark): | 0.001 | п | | | |
| TEST PERFC Radiant He | | | | - Stand | lard Test | t Method fo | or Surf | ace Flam | mability | of Materi | ials Using a | |
| | | | - | | | | | - | | | plate 0.06: os substitut | |
| | | | | | | | | | | | | |
| test perio downward p | od an ig progress The co | gnitin sion o | ng flam of the | ne impir flame f | nges at f Front. 7 | the top of The heat gi | the sp iven of | ecimen. f by the | Visual burning | observatio specimen | eginning of on is made c is automati ults in a Fl | f the cally |
| | | | | | | | | | | | | |
| | | | | | | | | | | Flaming | | |
| | | | | | | | | | | | | |
| RESILTS: | Flar | ne Pro | aressi | on (mm) | aa) | Net | | | Flame | Dripping | | |
| RESULTS: | Flar | me Pro | gressi | on (mm: | ss) | Net Stack | | | Flame Spread | Dripping or Flamir | | |
| | 3.0" | 6.0" | 9.0" | 12.0" | 15.0" | Stack Rise°C | Q | FS | Spread Index | Dripping, or Flamir Running (yes/no) | ng | |
| | | 6.0" | | | | Stack | Q 4.0 | FS 1.6 | Spread | Dripping, or Flamir Running (yes/no) | ng | |
| Specimen | 3.0" | 6.0" | 9.0" | 12.0" | 15.0" | Stack Rise°C | | | Spread Index | Dripping, or Flamir Running (yes/no) | ng | |
| Specimen 1 | 3.0" 01:48 | 6.0" FN FN | 9.0" FN | 12.0" FN | 15.0" FN | Stack Rise°C 16.6 | 4.0 | 1.6 | Spread Index 6.4 | Dripping, or Flamir Running (yes/no) | ng | |
| Specimen 1 2 | 3.0" 01:48 FN | 6.0" FN FN FN | 9.0" FN FN | 12.0" FN FN | 15.0" FN FN | Stack Rise°C 16.6 14.2 | 4.0 3.4 | 1.6 1.0 | Spread Index 6.4 3.4 | Dripping, or Flamir Running (yes/no) No No | ng | |
| Specimen 1 2 3 | 3.0" 01:48 FN 01:40 | 6.0" FN FN FN | 9.0" FN FN FN | 12.0" FN FN FN | 15.0" FN FN FN | Stack Rise°C 16.6 14.2 23.0 | 4.0 3.4 5.5 | 1.6 1.0 1.6 | Spread Index 6.4 3.4 8.8 5.4 | Dripping, or Flamir Running (yes/no) No No No | ng | |
| Specimen 1 2 3 4 ABBREVIATI F = Flash | 3.0" 01:48 FN 01:40 01:49 CONS USH | 6.0" FN FN FN FN FN ED: | 9.0" FN FN FN FN | 12.0" FN FN FN FN | 15.0" FN FN FN FN | Stack Rise°C 16.6 14.2 23.0 14.2 | 4.0 3.4 5.5 | 1.6 1.0 1.6 1.6 | Spread Index 6.4 3.4 8.8 5.4 | Dripping, or Flamir Running (yes/no) No No No | ng | |
| Specimen 1 2 3 4 ABBREVIATI F = Flash FN = Flame CALCULATIC Etera boar | 3.0" 01:48 FN 01:40 01:49 CONS USH ded beyone front CONS FACTOR | 6.0" FN FN FN FN ED: cond be did n | 9.0" FN FN FN FN Snchmar | 12.0" FN FN FN FN FN | 15.0" FN FN FN FN | Stack Rise°C 16.6 14.2 23.0 14.2 | 4.0 3.4 5.5 | 1.6 1.0 1.6 1.6 | Spread Index 6.4 3.4 8.8 5.4 | Dripping, or Flamir Running (yes/no) No No No | ng | |
| Specimen 1 2 3 4 ABBREVIATI F = Flash FN = Flame CALCULATIC Etera boar Beta: 23. | 3.0" 01:48 FN 01:40 01:49 CONS USE ded beyond front ON FACTO rd correct 83 | 6.0" FN FN FN FN ED: cond be did n | 9.0" FN FN FN FN enchmar | 12.0" FN FN FN FN Sk. ach this | 15.0" FN FN FN FN | Stack Rise°C 16.6 14.2 23.0 14.2 | 4.0 3.4 5.5 | 1.6 1.0 1.6 1.6 | Spread Index 6.4 3.4 8.8 5.4 | Dripping, or Flamir Running (yes/no) No No No | ng | |
| 2 3 4 ABBREVIATI F = Flash FN = Flame CALCULATIC Etera boar Beta: 23. | 3.0" 01:48 FN 01:40 01:49 CONS USE ded beyond front ON FACTO rd correct 83 | 6.0" FN FN FN FN ED: cond be did n | 9.0" FN FN FN FN enchmar | 12.0" FN FN FN FN Sk. ach this | 15.0" FN FN FN FN S benchma | Stack Rise°C 16.6 14.2 23.0 14.2 | 4.0 3.4 5.5 | 1.6 1.0 1.6 1.6 | Spread Index 6.4 3.4 8.8 5.4 | Dripping, or Flamir Running (yes/no) No No No | ng | |

P.O.#: 000268984 0

rb



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| | | | 1 | | | | | |
|----------------------------|---|--|------------------------------|-----------------|-------------------|----------------|--------|------------|
| Received:09/1 | 1/2006 Completed:09/ | 14/2006 Letter: D | rb | P.O.#: 0 | 00268984 0 | Test Report #: | | 2-64134-0- |
| Client's Identification | Busmark V 400 FW C | Dpaque A-58 90PFW | | | | | | |
| Tested For: J | oann Dupre | | | | Key Test: AST | M E 162 | | 495 |
| F | lexcon Co, Inc | | | | | | | |
| 1 | Flexcon Industrial Parl | k, Office #4 | | | Tel: 1-(50 | 08)-885-8247 | Ext: | |
| S | pencer, MA 01562-264 | 42 | Fax: 1-(508)-885-8399 | | | | | |
| | Off Gas | Flame Front | Fla | ming | | Flame on | | |
| | Ignition | Ignition at | Out | | Test End | Test Floor | | |
| Specimen # | (yes/no) | (mm:ss) | | n:ss) | (mm:ss) | (yes/no) | | |
| | | | | · | | | | |
| 1 | No | 01:18 | 0 | :54 | 07:00 | No | | |
| 2 | No | 01:45 | 0 | :52 | 07:00 | No | | |
| 3 | No | 01:15 | 0 | :48 | 07:00 | No | | |
| 4 | No | 01:29 | 01 | :58 | 07:00 | No | | |
| | | | | | | | | |
| ACCEPTANCE | CRITERIA: For pa | nels*, seats, mattr | ess i | frames | | | | |
| 1 17] | Onwood Indon abo | 1] not owned 25 | | | | | | |
| | e Spread Index sha ng dripping, or f | laming running is n | ot pe | ermitted | l . | | | |
| | s include: Walls ws, and light dif | , ceilings, partiti fusers) | on ta | ables & | shelves, HVAC | ducting, | | |
| | | | | | | | | |
| SPECIFIERS: | | | | | | | | |
| | al Railroad Admin al Register Notic | istration Test Proc e dated 6/25/02 | edure | es & Per | formance Crit | eria, | | |
| | Recommended Fire t #90-A published | Safety Practices fo . 10/20/93 | r Tra | ansit Bu | s & Van Mater | ials Selection | | |
| 3. Amtra | c Specification # | 352 Section 3.5 dat | ed 1, | 29/90 | | | | |
| 4. NFPA | 130 Section 4.2.4 | Interior Fire Prop | agat: | on Resi | stance | | | |
| CONCLUSION: | Based on the ab | ove Results and Acc | eptar | nce Crit | eria, the ite | m tested: | | |
| [x] Comp | olies | [] | Does | s not co | omply | | | |
| CERTIFICATI | ON: I certify th | at the above result | s wei | re obtai | ned after tes | ting specimens | in acc | ordance |
| with the pr | ocedures and equi | pment specified by | ASTM | E 162. | | | | |
| | | | | | | | | |
| AUTHORIZED | STONATURE | | | | | | | |
| | | c /id | | | | | | |
| THE GOVMARN | ORGANIZATION, IN | . / Ju | (т | Page 2 c | (f 2) | | | |
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The results contained in this report relate only to item(s) tested. The test report shall not be reproduced, except in full, without written approval from The Govmark Organization, Inc.



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| Receiveu.09/11/2000 C | ompleted:09/18/200 | 6 Letter: D1 | rb P.O.#: | 000268984 0 | Test Report #: | 2-64134-1- |
|--|---|---|--|--|---|------------|
| Client's Busmark | V 400 FW Opaque | e A-58 90 PFW | | | | |
| Tested For: Joann Du | upre | | | Key Test: | ASTM E 662 | 465 |
| Flexcon C | · | | | | | |
| | Industrial Park, Offic IA 01562-2642 | ce #4 | | | 1-(508)-885-8247 1-(508)-885-8399 | Ext: |
| | | - | | | | _ |
| Category: Smoke De | ensity | Specifier: T | ransit Guidel | Lines/Regs. | PC: 24H+ME | |
| APPROXIMATE THICKN | JESS OF MATERIAL | (as measure | d by Govmark |): 0.001" | | |
| TEST PERFORMED: A Solid Materials (N Criteria") | | | - | - | = | |
| CIICEIIA / | | | | | | |
| ciiteila) | | | Flaming | | Flaming | |
| RESULTS: | | | Dripping, | | Dripping, | |
| RESULTS: | | Elemina | Dripping, or Flaming | Non | Dripping, or Flaming | |
| RESULTS: Specific Optical Density at: | Specimen # | Flaming Mode | Dripping, or Flaming Running** (yes/no) | Flami: Mode | Dripping, or Flaming ng Running ** (yes/no) | |
| | Specimen # 1 | - | Dripping, or Flaming Running** | Flami | Dripping, or Flaming ng Running ** (yes/no) | |
| RESULTS: Specific Optical Density at: | | Mode | Dripping, or Flaming Running** (yes/no) | Flamin Mode | Dripping, or Flaming ng Running ** (yes/no) | |
| RESULTS: Specific Optical Density at: | 1 | Mode 1 1 1 | Dripping, or Flaming Running** (yes/no) No | Flami: Mode 0 0 0 | Dripping, or Flaming ng Running ** (yes/no) No No No No | |
| RESULTS: Specific Optical Density at: | 1 2 | Mode 1 1 1 | Dripping, or Flaming Running** (yes/no) No No No | Flamin Mode 0 0 | Dripping, or Flaming ng Running ** (yes/no) No No No No | |
| RESULTS: Specific Optical Density at: | 1 2 3 | Mode 1 1 1 | Dripping, or Flaming Running** (yes/no) No No No | Flami: Mode 0 0 0 | Dripping, or Flaming ng Running ** (yes/no) No No No No | |
| RESULTS: Specific Optical Density at: 90 Seconds: | 1 2 3 Avg: | Mode 1 1 1 1 | Dripping, or Flaming Running** (yes/no) No No No No | Flamin Mode 0 0 0 0 2 7g: 0 | Dripping, or Flaming ng Running ** (yes/no) No No No No | |
| RESULTS: Specific Optical Density at: 90 Seconds: | 1 2 3 Avg: 1 | Mode 1 1 1 1 21 | Dripping, or Flaming Running** (yes/no) No No No No No | Flamin Mode 0 0 0 7 7 | Dripping, or Flaming ng Running ** (yes/no) No No No No - | |
| RESULTS: Specific Optical Density at: 90 Seconds: | 1 2 3 Avg: 1 2 | Mode 1 1 1 21 15 | Dripping, or Flaming Running** (yes/no) No No No No No No | Flamin Mode 0 0 0 7 7 6 | Dripping, or Flaming ng Running ** (yes/no) No No No - - | |

NOTE: An asterisk (*) next to a result indicates that the value is lower than the earlier value as a result of a correction for particle deposits on the glass which is part of the optical system.

REMARKS: Specimens (with self adhesive backing) were mounted to a steel plate 0.06" thick.

ACCEPTANCE CRITERIA: For panels***, seat frames & shrouds, mattress frames --

| | Specific Density | Specific Density |
|-------------------|------------------|------------------|
| | at 90 seconds | at 4 minutes |
| | | |
| Flaming Mode: | 100 maximum | 200 maximum |
| Non Flaming Mode: | 100 maximum | 200 maximum |

Flaming dripping, or flaming running is not permitted.

(*** Panels include: Walls, ceilings, partition tables & shelves, HVAC ducting, windows, and light diffusers)

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| Received: 09/11/2006 Completed: 09/18/2006 Letter: D1 | rb | P.O.#: 000268984 0 | | Test Report #: | 2-64134-1- | | |
|--|------------------------|---------------------------|-------|----------------------------|---------------|--|--|
| Client's Busmark V 400 FW Opaque A-58 90 PFW Identification | | | | | | | |
| Tested For: Joann Dupre | Key Test: ASTM E 662 4 | | | | | | |
| Flexcon Co, Inc 1 Flexcon Industrial Park, Office #4 Spencer, MA 01562-2642 | | | | 8)-885-8247 8)-885-8399 | Ext: | | |
| SPECIFIERS: | | | | | | | |
| 1. Federal Railroad Administration Test Procedu: Federal Register Notice dated 6/26/02 | res & | 2 Performance Cri | teria | | | | |
| UMTA Recommended Fire Safety Practices for Tr Docket #90-A published 10/20/93 | ransi | t Bus & Van Mate | rials | Selection | | | |
| 3. Amtrac Specification #352 Section 3.5 dated 3 | 1/29/ | 90 | | | | | |
| 4. NFPA 130 Section 4.2.4 Interior Fire Propaga | tion | Resistance | | | | | |
| (** Flaming dripping or flaming running are not normally reported during this test. However, the acceptance criteria established by the transportation industry require this additional reporting category.) | | | | | | | |
| CONCLUSION: Based on the above Results and Acce | eptar | nce Criteria, the | item | tested: | | | |
| [x] Complies; [] Does not comply | | | | | | | |
| CERTIFICATION: I certify that the above results with the procedures and equipment specified by a | | | | | in accordance | | |
| | | | | | | | |
| AUTHORIZED SIGNATURE THE GOVMARK ORGANIZATION, INC. /jd | | | | | | | |
| | (1 | Page 2 of 2) | | | | | |
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