



CERTIFICATE OF TESTING

For the Account Of: Brentano Inc
260 Holbrook Drive
Wheeling, IL 60090
Contact: Lan Chenh

Client's Identification: Majalis 5803

TEST PERFORMED California Technical Bulletin 117: June 2013 – Requirements, Test Procedure and Apparatus for Testing the Smolder Resistance of Materials Used in Upholstered Furniture – Cover Fabric Test

TEST RESULTS

| Specimen | Char Length (in) | Extinguished in 45 minutes? (Y/N) |
|----------|------------------|-----------------------------------|
| 1 | 0.6 | Y |
| 2 | 0.6 | Y |
| 3 | 0.6 | Y |

NOTES

Test Conditions: 70 ±5°F, 50 ±5% Relative Humidity

ACCEPTANCE CRITERIA

A material is considered to pass or fail based on the following criteria:

1. A single mock-up test specimen fails to meet the requirements of this test procedure if any of the following criteria occurs:
 - a. The mock-up test specimen continues to smolder after the 45 minute test duration
 - b. A vertical char length of more than 1.8 inches (45mm) develops on the cover fabric
 - c. The mock-up test specimen transitions to open flaming
2. The cover fabric passes the test if three initial mock-up specimens pass the test, i.e. the cigarettes burn their full length and are no longer smoldering
3. If more than one initial specimen fails, the cover fabric fails the test
4. If any one of the three initial specimens fails, repeat the test on additional three specimens
5. If all three additional specimens pass the test, the cover fabric passes the test. If any one of the additional three specimens fails, the cover fabric fails the test

CONCLUSION

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

- Pass
 Fail

CERTIFICATION I certify that the above results were obtained after testing specimen in accordance with the procedures and equipment specified by the standard stated above.

Authorized Signature: 



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TEST PERFORMED NFPA 260 Standard Methods of Tests and Classification System for Cigarette Ignition Resistance of Components of Upholstered Furniture – 2013; Fabric Cover Test and UFAC Fabric Classification Test Method – 1990; Standard Test Methods for Cigarette Ignition Resistance of Components of Upholstered Furniture ASTM E1353-08ae1 – Cover Fabric Test

TEST RESULTS

| Specimen | Char Length (in) |
|----------|------------------|
| 1 | 0.6 |
| 2 | 0.6 |
| 3 | 0.6 |

NOTES

Test Conditions: 70 ±2°F, 65 ±2% Relative Humidity

ACCEPTANCE CRITERIA

1. If the test specimen has no ignition, or if no individual specimen yields a vertical char of 45 mm (1.75 in; ASTM states 1.8 in.) or less, the fabric is classified a Class I cover fabric.
2. If the vertical char of the test specimen greater than 45 mm (1.75 in.; ASTM states 1.8 in), the fabric is classified a Class II cover fabric.
3. If an obvious ignition of the polyurethane substrate occurs on the test assembly, the fabric is classified a Class II cover fabric.

CONCLUSION

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

- Class I
 Class II

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TEST PERFORMED Breaking Strength and Elongation of Textile Fabrics (Grab Test) ASTM D5034-09(2013)(G-E)

TEST RESULTS

| Specimen | Breaking Force (lbf) | |
|----------|-------------------------|------------------|
| 1 | 331 | |
| 2 | 328 | |
| 3 | 318 | |
| 4 | 321 | |
| 5 | 333 | |
| | | Avg of Warp: 326 |
| 6 | 430 | |
| 7 | 426 | |
| 8 | 390 | |
| 9 | 424 | |
| 10 | 435 | |
| 11 | 405 | |
| 12 | 387 | |
| 13 | 402 | |
| | | Avg of Fill: 412 |


NOTES

Equipment Used: Tinius Olson H5KT Universal Testing Machine
Load Cell Maximum: 1000 pounds
Jaw Size: 1 inch x 1 inch (face and back), rubber coated
Test Conditions: 70 ±2°F, 65 ±2% Relative Humidity
Sampling Method: As Received

ACCEPTANCE CRITERIA

| | |
|------------------------------|----------------------------|
| A.C.T. Standard | Acceptance Criteria |
| Upholstery | 50 pounds minimum |
| Panels and Upholstered Walls | 35 pounds minimum |

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TEST PERFORMED Pilling Resistance and Other Related Surface Changes of Textile Fabrics: Brush Pilling Tester
ASTM D3511/D3511M-13

TEST RESULTS

| | Rating |
|---------|--------|
| Left | 2.0 |
| Center | 2.0 |
| Right | 2.0 |
| Average | 2.0 |

RATING SYSTEM

- Class 5.0 No Pilling
- Class 4.0 Slight Pilling
- Class 3.0 Moderate Pilling
- Class 2.0 Severe Pilling
- Class 1.0 Very Severe Pilling


NOTES

- Test Conditions: 70 ±2°F, 65 ±2% Relative Humidity
- Sampling Method: As Received
- Viewing Apparatus: Macbeth Lightbooth
- Viewing Option: 45 degree
- Rating Standard: ADJD3512 Photographic Standards
- Running Times: 4 minutes brushing / 2 minutes pilling

ACCEPTANCE CRITERIA

- A.C.T. Standard: Acceptance Criteria
- Upholstery: Class 3 minimum

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For the Account Of: Brentano Inc
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TEST PERFORMED Resistance to Slippage of Yarns in Woven Fabrics Using a Standard Seam ASTM D4034-92

TEST RESULTS

| Specimen | Warp Yarn Slippage (lbf) | | Fill Yarn Slippage (lbf) | |
|----------|--------------------------|----|--------------------------|----|
| 1 | 108.9 | SB | 91.6 | SB |
| 2 | 75.9 | SB | 60.4 | SB |
| 3 | 93.0 | SB | 79.2 | SB |
| 4 | 92.2 | SB | 117.4 | SB |
| 5 | 82.6 | SB | 82.1 | SB |
| Average | 90.5 | | 86.1 | |

ABBREVIATIONS USED

SB Seam broke before 1/4" slippage - Results should reflect this
 SS 1/4" slippage occurred - Note: Actual slippage of yarns is visible
 FB Fabric broke before 1/4" slippage - Note: Actual breakage is visible

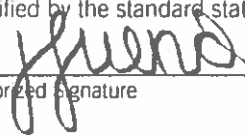
NOTES

Equipment Used: Tinius Olson H5KT Universal Testing Machine
 Seam Description: Per ASTM D4034-92
 Seam Type: Standard Lockstitch
 Stitches per Inch: 7 ± 0.5 stitches per inch
 Needle Used: Size 22 NM: 140, 135x17 ball point needle
 Thread: Nymo EX Bonded Nylon thread; 5x is used for the bobbin and 8x is used for the needle

ACCEPTANCE CRITERIA

A.C.T. Standard Upholstery Acceptance Criteria
 25 lbs. Minimum

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260 Holbrook Drive
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Contact: **Lan Chenh**

Client's Identification: **Majalis 5803**

TEST PERFORMED Colorfastness to Wet & Dry Crocking AATCC 8-2013

TEST RESULTS

| | |
|--------------|-----------|
| Dry Crocking | Class 5.0 |
| Wet Crocking | Class 5.0 |

RATING SYSTEM

- Class 5 No color transfer
- Class 4 Slight color transfer
- Class 3 Moderate color transfer
- Class 2 Considerable color transfer
- Class 1 Much Color transfer


NOTES

Scale Used for Evaluating: AATCC Chromatic Transference Scale

ACCEPTANCE CRITERIA

| A.C.T. Standard | Acceptance Criteria (Dry) | Acceptance Criteria (Wet) |
|------------------------------|---------------------------|---------------------------|
| Upholstery | Class 4 minimum | Class 3 minimum |
| Direct Glue Wallcoverings | Class 3 minimum | Class 3 minimum |
| Panels and Upholstered Walls | Class 3 minimum | Class 3 minimum |
| Draperies (Solid) | Class 4 minimum | Class 3 minimum |
| Draperies (Print) | Class 4 minimum | Class 3 minimum |

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