



# TESTING SERVICES

## LABORATORY TEST REPORT

Report # 98913A  
Lab Test Number: 3656-5560  
Report Date: April 20, 2026

ASTM E648 Critical Radiant Flux (Radiant Panel)

www.testingservices.us • (706)226-1400

office@testingservices.us

### CLIENT:

|          |                        |
|----------|------------------------|
| Company: | Brumlow Rug Mills      |
| Address: | PO Box 1779            |
|          | Calhoun, GA 30703-1779 |
|          |                        |

### TEST MATERIAL:

|                         |                     |
|-------------------------|---------------------|
| Date Material Received: | March 27, 2026      |
| Material Type:          | Carpet              |
| Material Condition:     | Excellent           |
| Style:                  | Textured Print Base |

### TESTING METHODS REQUESTED:

|                                                                                 |                                         |              |                                                                                                             |
|---------------------------------------------------------------------------------|-----------------------------------------|--------------|-------------------------------------------------------------------------------------------------------------|
| Testing Services Inc. was instructed by the client to test for the following... |                                         |              |                                                                                                             |
| Standard:                                                                       | ASTM E648, NFPA 253<br>FTM Standard 372 | Test Method: | Standard Test Method for Critical Radiant Flux of Floor Covering Systems Using a Radiant Heat Energy Source |

### SAMPLING PLAN:

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |           |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|
| Sampling Date:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 3/27/2026 |
| <ul style="list-style-type: none"> <li>Specimen sampling is performed in the sampling department at TSI.</li> <li>The sampling size of specimens is determined by the test method requirements.</li> <li>In the event a specific sampling size is not called for, a determination will be made based on previous testing experience, and approved for use by an authorized manager.</li> <li>All samples are subjected to the outside environmental conditions of temperature and relative humidity.</li> <li>Sample requiring pre-determined exposure to specified environmental conditions based on a specific test method, take place in the departments in which they are tested</li> </ul> |           |

### DEVIATION FROM TEST METHOD:

|                                                                                    |
|------------------------------------------------------------------------------------|
| State reason for any Deviation from, Additions to, or Exclusions From Test Method. |
| None                                                                               |

### TEST SCOPE:

This test method measures the critical radiant flux of horizontally mounted floor-covering systems exposed to a flaming ignition source positioned on a graded radiant heat energy environment within an enclosed chamber. The results are designed to provide a basis for estimating one aspect of fire behavior of a flooring system.

### TEST SUMMARY:

| TEST METHOD     | TEST DESCRIPTION      | TEST RESULT   |            |                   |                       |
|-----------------|-----------------------|---------------|------------|-------------------|-----------------------|
|                 |                       | Burn Distance |            | Time to Flame Out | Critical Radiant Flux |
| ASTM E648-19ae1 | Critical Radiant Flux | Specimen #1   | 36.5 cm    | 30:35 min         | 0.56 W/cm²            |
|                 |                       | Specimen #2   | 38.0 cm    | 24:56 min         | 0.53 W/cm²            |
|                 |                       | Specimen #3   | 41.5 cm    | 25:08 min         | 0.47 W/cm²            |
|                 |                       | Average       | 0.52 W/cm² |                   |                       |
|                 | NFPA Classification   | Class I       |            |                   |                       |
|                 | STDEV                 | 0.05          |            |                   |                       |
|                 | COF of Variation      | 9.42 %        |            |                   |                       |

Mounting Board: Calcium Silicate Board  
Conditioning: 96 hours @ 70°F 50% RH

Adhesive: Taylor Workhorse 900 MP  
Calibration Curve: 393L

Trowel: 1/8"x1/8"x1/8"  
Radiometer #: 5356

### Uncertainty:

We undertake all assignments for our clients on a best effort basis. Our findings and judgments are based on the information to us using the latest test methods available. TSI can only ensure the test results for the specific items tested.

Unless otherwise noted in the deviations sections of this report, all tests are performed in compliance with stated test method.

### Test Report Approval:

Erle Miles, III, Lab Director Testing Services (TSI) LLC

TSI Accreditation: Our laboratory is accredited by the US Dept. of Commerce, National Institute of Standards and Technology: ISO/IEC 17025:2005. Our code # is: NVLAP 100108-0. TSI is an Organizational Member of ASTM (American Society for Testing and Materials).



100108-0

Testing Services (TSI) LLC  
817 Showalter Avenue  
PO Box 1343  
Dalton, GA 30721



# TESTING SERVICES

## LABORATORY TEST REPORT

Report # 98913A1  
Lab Test Number: 3656-5560  
Report Date: April 20, 2026

ASTM E648 Critical Radiant Flux- NY (Radiant Panel)

www.testingservices.us • (706)226-1400

### CLIENT:

|          |                        |
|----------|------------------------|
| Company: | Brumlow Rug Mills      |
| Address: | PO Box 1779            |
|          | Calhoun, GA 30703-1779 |
|          |                        |

### TEST MATERIAL:

|                         |                     |
|-------------------------|---------------------|
| Date Material Received: | March 20, 2026      |
| Material Type:          | Carpet              |
| Material Condition:     | Excellent           |
| Style:                  | Textured Print Base |

### TESTING METHODS REQUESTED:

|                                                                                 |                                                   |              |                                                                                                                                                  |
|---------------------------------------------------------------------------------|---------------------------------------------------|--------------|--------------------------------------------------------------------------------------------------------------------------------------------------|
| Testing Services Inc. was instructed by the client to test for the following... |                                                   |              |                                                                                                                                                  |
| Standard:                                                                       | ASTM E648, NFPA 253<br>FTM Standard 372<br>NYC 16 | Test Method: | Standard Test Method for Critical Radiant Flux of Floor Covering Systems Using a Radiant Heat Energy Source<br>Local Law of the City of New York |

### SAMPLING PLAN:

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |           |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|
| Sampling Date:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 3/27/2026 |
| <ul style="list-style-type: none"> <li>Specimen sampling is performed in the sampling department at TSI beside the ground level dock door.</li> <li>The sampling size of specimens is determined by the test method requirements.</li> <li>In the event a specific sampling size is not called for, a determination will be made based on previous testing experience, and approved for use by an authorized manager.</li> <li>All samples are subjected to the outside environmental conditions of temperature and relative humidity.</li> <li>Sample requiring pre-determined exposure to specified environmental conditions based on a specific test method, take place in the departments in which they are tested</li> </ul> |           |

### DEVIATION FROM TEST METHOD:

|                                                                                    |
|------------------------------------------------------------------------------------|
| State reason for any Deviation from, Additions to, or Exclusions From Test Method. |
| None                                                                               |

**TEST SCOPE:** This test method measures the critical radiant flux of horizontally mounted floor-covering systems exposed to a flaming ignition source positioned on a graded radiant heat energy environment within an enclosed chamber. The results are designed to provide a basis for estimating one aspect of fire behavior of a flooring system recorded at the fifteen-minute mark.

### TEST SUMMARY:

| TEST METHOD                      | TEST DESCRIPTION                                            | TEST RESULT |               |    |                       |
|----------------------------------|-------------------------------------------------------------|-------------|---------------|----|-----------------------|
|                                  |                                                             | Specimen #  | Burn Distance |    | Critical Radiant Flux |
| ASTM E648-19ae1/NYC Local Law 16 | Critical Radiant Flux @ 15 Minutes                          | Specimen #1 | 23.5 cm       |    | 0.84 W/cm²            |
|                                  |                                                             | Specimen #2 | 35.0 cm       |    | 0.59 W/cm²            |
|                                  |                                                             | Specimen #3 | 28.0 cm       |    | 0.74 W/cm²            |
| Average                          |                                                             | 0.72 W/cm²  |               |    |                       |
| Classification                   | Installation on Floors of Corridors: Minimum: 0.50 W/cm²    | YES         | √             | NO |                       |
|                                  | Installation on Floors of General Area: Minimum: 0.40 W/cm² | YES         | √             | NO |                       |

Mounting Board: Calcium Silicate Board  
Conditioning: 96 hours @ 70°F 50% RH

Adhesive: Taylor Workhorse 9000MP  
Calibration Curve: 393L

Trowel: 1/8"x1/8"x1/8"  
Radiometer #: 5356

### Uncertainty:

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Testing Services (TSI) LLC  
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Dalton, GA 30721



# TESTING SERVICES

## LABORATORY TEST REPORT

Report # 98913B  
Lab Test Number: 3656-5560  
Report Date: April 20, 2026

ASTM E662 Specific Optical Smoke Density-Flaming/NF

www.testingservices.us • (706)226-1400

office@testingservices.us

### CLIENT:

|          |                        |
|----------|------------------------|
| Company: | Brumlow Rug Mills      |
| Address: | PO Box 1779            |
|          | Calhoun, GA 30703-1779 |
|          |                        |

### TEST MATERIAL:

|                         |                     |
|-------------------------|---------------------|
| Date Material Received: | March 27, 2026      |
| Material Type:          | Carpet              |
| Material Condition:     | Excellent           |
| Style:                  | Textured Print Base |

### TESTING METHODS REQUESTED:

|                                                                                 |           |              |                                                                                         |
|---------------------------------------------------------------------------------|-----------|--------------|-----------------------------------------------------------------------------------------|
| Testing Services Inc. was instructed by the client to test for the following... |           |              |                                                                                         |
| Standard:                                                                       | ASTM E662 | Test Method: | Standard Test Method for Specific Optical Density of Smoke Generated by Solid Materials |

### SAMPLING PLAN:

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |           |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|
| Sampling Date:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 3/27/2026 |
| <ul style="list-style-type: none"><li>Specimen sampling is performed in the sampling department at TSI.</li><li>The sampling size of specimens is determined by the test method requirements.</li><li>In the event a specific sampling size is not called for, a determination will be made based on previous testing experience, and approved for use by an authorized manager.</li><li>All samples are subjected to the outside environmental conditions of temperature and relative humidity.</li><li>Sample requiring pre-determined exposure to specified environmental conditions based on a specific test method, take place in the departments in which they are tested</li></ul> |           |

### DEVIATION FROM TEST METHOD:

|                                                                                    |
|------------------------------------------------------------------------------------|
| State reason for any Deviation from, Additions to, or Exclusions From Test Method. |
| None                                                                               |

### TEST SUMMARY:

| TEST METHOD  | TEST DESCRIPTION                        | AVERAGE FLAMING MODE | AVERAGE NON FLAMING MODE |
|--------------|-----------------------------------------|----------------------|--------------------------|
| ASTM E662-21 | Specific Optical Density (DS) @ 1.5 Min | 1                    | 1                        |
|              | Specific Optical Density (DS) @ 4.0 Min | 194                  | 35                       |
|              | Maximum Specific Optical Density (DM)   | 213                  | 316                      |
|              | Clear Beam (DC)                         | 38                   | 42                       |
|              | Corrected (DMC)                         | 175                  | 274                      |

Requirements:  $\leq 450$  DMC  
Radiometer Output: 8.1 mv

Burner Fuel: Propane  
Furnace Voltage: 117v

Irradiance: 2.5 W/cm<sup>2</sup>  
Pressure: Positive Under 3" Water

### Uncertainty:

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# TESTING SERVICES

## LABORATORY TEST REPORT

Report # 98913C  
Lab Test Number: 3656-5560  
Report Date: April 20, 2026

ASTM D2859 Ignition Characteristics (Pill Flammability)

www.testingservices.us • (706)226-1400

office@testingservices.us

### CLIENT:

|          |                        |
|----------|------------------------|
| Company: | Brumlow Rug Mills      |
| Address: | PO Box 1779            |
|          | Calhoun, GA 30703-1779 |
|          |                        |

### TEST MATERIAL:

|                         |                     |
|-------------------------|---------------------|
| Date Material Received: | March 18, 2026      |
| Material Type:          | Carpet              |
| Material Condition:     | Excellent           |
| Style:                  | Textured Print Base |

### TESTING METHODS REQUESTED:

|                                                                                 |            |              |                                                                                                |
|---------------------------------------------------------------------------------|------------|--------------|------------------------------------------------------------------------------------------------|
| Testing Services Inc. was instructed by the client to test for the following... |            |              |                                                                                                |
| Standard:                                                                       | ASTM D2859 | Test Method: | Standard Test Method for Ignition Characteristics of Finished Textile Pile Yarn Floorcoverings |

### SAMPLING PLAN:

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |           |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|
| Sampling Date:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 3/27/2026 |
| <ul style="list-style-type: none"><li>Specimen sampling is performed in the sampling department at TSI.</li><li>The sampling size of specimens is determined by the test method requirements.</li><li>In the event a specific sampling size is not called for, a determination will be made based on previous testing experience, and approved for use by an authorized manager.</li><li>All samples are subjected to the outside environmental conditions of temperature and relative humidity.</li><li>Sample requiring pre-determined exposure to specified environmental conditions based on a specific test method, take place in the departments in which they are tested</li></ul> |           |

### DEVIATION FROM TEST METHOD:

|                                                                                    |  |
|------------------------------------------------------------------------------------|--|
| State reason for any Deviation from, Additions to, or Exclusions From Test Method. |  |
| None                                                                               |  |

### TEST SCOPE:

This test method provides a method of determining the flammability characteristics of textile products when exposed to an ignition source in a laboratory environment. Eight specimens were taken from the sample lot, 230mm X 230mm, and preconditioned in an air circulating oven @ 150°C for 2 hours. After removal from the oven, the specimens are placed into a desiccator for 1 hour prior to performing the test. Each specimen was then placed into the test chamber floor with the pile surface up and a steel frame, 230mm X 230mm with 200mm diameter hole, placed on top of the specimen. A methenamine tablet was placed centrally onto the pile surface. The pill was ignited using a lighted match, with the ignition flame and propagated flame allowed to self-extinguish.

### CRITERIA:

The specimen passes, if the charred portion of the test specimen, did not extend to within 25mm (1") of the diameter hole of the steel frame. The U.S. Consumer Product Safety Commission requires that at least seven of the eight specimens pass the test for acceptance as meeting the standard.

### TEST SUMMARY:

| TEST METHOD         | TEST DESCRIPTION                                                | TEST RESULT     |                                                       |
|---------------------|-----------------------------------------------------------------|-----------------|-------------------------------------------------------|
| ASTM D2859-16(2021) | Ignition Characteristics of Textile Floor Coverings (Pill Test) | 8 out of 8 Pass | Passes, U.S. CPSC 16CFR 1630 (FF1-70), Carpets & Rugs |

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### Test Report Approval:

Erle Miles, III, Lab Director Testing Services (TSI) LLC

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