



COMMERCIAL TESTING COMPANY

1215 South Hamilton Street • Dalton, Georgia 30720
Telephone (706) 278-3935 • Facsimile (706) 278-3936

Report Number 17-12028

Shaw Contract
Dalton, Georgia

Test Number 5146-6176
December 4, 2017

Total Thickness and Pile Thickness

Test Method: The total thickness and pile thickness were determined as described in ASTM International Test Method D7241, *Pile Thickness of Finished Multilevel Pile Yarn Floor Covering*.

Material Tested:

Style Name: Quest ULT MB / M3335-402
Style Number: 60784
Construction: Multilevel Loop Pile
Backing Type: Ultra Loc MB
Shaw Test Number: R-171127-44470B

Test Result:

Sample	Total Thickness	Pile Thickness
Sample #1	0.274 inch	0.134 inch
Sample #2	0.273 inch	0.132 inch
Sample #3	0.269 inch	0.130 inch

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Report Number 17-10458

**Shaw Contract
Dalton, Georgia**

**Test Number 5114-5464-1017R
October 20, 2017**

Flammability Test

Test Procedure: The flammability was determined in accordance with Title 16 CFR Chapter II, Subchapter D, Part 1630, *Standard for the Surface Flammability of Carpets and Rugs (FF 1-70)*, commonly referred to as the pill test.

Terminology: For purposes of this test, an individual specimen meets the *Test Criteria* if the charred portion does not extend to within 1.0 inch of the edge of the hole in the flattening frame. The *Acceptance Criteria* is based on at least 7 of 8 specimens meeting the Test Criteria in order for the material to conform to this standard.

Material Tested:

Identification: 60784 Quest ULT MB
Construction: Loop Pile
Roll Number: CU0G0AW

Backing Type: Ultra Loc MB
MO Number: J5994
Shaw Test Number: R-171006-43013

Test Result:

Un-Charred Surface Area (inches)								Test Result
1	2	3	4	5	6	7	8	
>3	>3	>3	>3	>3	>3	>3	>3	PASS

Requirement: For machine-made carpets, at least one test is performed after commencement of production, one test after production of the first 25,000 linear yards, and one test after production of the first 50,000 linear yards. If all 24 specimens of the three required tests meet the test criteria (i.e., Pass 8 of 8), then it is necessary to test after each additional 100,000 linear yards are produced.

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Report Number 17-10454

Shaw Contract
 Dalton, Georgia

Test Number 5114-5460-1017R
 October 20, 2017

Smoke Density Test

Test Method: The test was conducted in accordance with the ASTM International fire test response standard E662-17a, *Specific Optical Density of Smoke Generated by Solid Materials*. It provides a means of determining specific optical density of smoke generated by materials mounted in a vertical position. Results are expressed in terms of specific optical density. The method employs an electrically heated radiant-energy source positioned so as to produce an irradiance level of 2.5 W/cm² over the center of a vertically mounted 76.2 mm square specimen. This exposure provides the nonflaming condition of the test. For the flaming condition, a six-tube burner is used to apply a row of equidistant flamelets across the lower edge of the specimen in addition to the specified irradiance level from the heating element. Specimens are exposed to the flaming and nonflaming conditions within a closed chamber while varying light transmission is measured using a photometric system with a vertical light path. These measurements are used to calculate specific optical density of the smoke generated during the time period to reach the maximum value.

Material Tested:

Identification: 60784 Quest ULT MB
 Construction: Loop Pile
 Roll Number: CU0G0AW
 Backing Type: Ultra Loc MB

MO Number: J5994
 Shaw Test Number: R-171006-43013
 Total Weight: 63.4 oz/yd²

Test Result:

Specimen	Flaming Exposure			Non-Flaming Exposure		
	#1	#2	#3	#1	#2	#3
Ds @ 1.5 minutes	34	29	32	0	0	0
Ds @ 4.0 minutes	109	127	122	36	41	43
Dm	127	127	122	187	185	182
Time to Dm	4.8	4.0	4.0	19.6	18.4	17.6
Dc	12	11	9	2	3	2
Dm (corrected)	115	116	113	185	182	180
Average Ds @ 1.5 minutes	32			0		
Average Ds @ 4.0 minutes	119			40		
Average Dm	125			185		
Average Dm (corrected)	115			182		

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CENTRAL LABORATORY REPORT

ASTM D5252 Hexapod Drum Test

Test#: R-171006-43013

Date Completed: 10-15-2017

Division: Shaw Contract

Style: 60784 Quest ULT MB

Testing Summary

Cycles Exposed

12,000

TARR

3.00

Traffic Classification

Heavy

Samples were assessed using ASTM D7330, Assessment of Surface Appearance Change in Pile Floor Coverings Using Standard Reference Scales.

Test Method Explanation: Carpet specimens are exposed to the Hexapod Tumble Drum Test ASTM D5252. After exposure, the specimens are assessed using ASTM test method D7330. This test method uses the Carpet and Rug Institute's CRI Reference Scales (aka. CRI-Texture Appearance Retention Rating Scales or TARR Scales).

Approved by:



Charles Tidwell

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Report Number 17-10457

**Shaw Contract
Dalton, Georgia**

**Test Number 5114-5456-1017R
October 20, 2017**

Electrostatic Propensity

Test Method: The test was conducted in accordance with the AATCC Test Method 134, *Electrostatic Propensity of Carpets*. The purpose of the test is to assess the static propensity of carpets under controlled laboratory conditions simulating those that may exist in actual installations. The most important factors in determining the static charge are: (1) the basic natures of the two materials being rubbed together or separated, i.e., shoe soles and carpet; (2) surface contamination on either; (3) the nature of the rubbing or separation, i.e., stepping or scuffing; and, (4) the ambient atmospheric contains. A sample is conditioned at 70°F and 20% relative humidity and the static properties characterized by performing the following tests:

- TEST I — The step test is performed by wearing AATCC TM 134 test sandals with Neolite™ soles and heels and walking on the carpet for one minute.
- TEST II — The scuff test is conducted by scuffing or wiping in a backward motion for one minute wearing test sandals with Neolite™ soles and heels.

Material Tested:

Identification: 60784 Quest ULT MB
 Construction: Loop Pile
 Roll Number: CU0G0AW
 Backing Type: Ultra Loc MB
 MO Number: J5994
 Shaw Test Number: R-171006-43013

Test Conditions:

Environmental: 21 ± 1°C, 20 ± 2% RH
 Underlayment: TM 134 Pad
 Shampoo: None

Test Result:

Test Mode	Polarity	Voltages
Test I — Step	negative	0.3 kV
Test II — Scuff	negative	1.6 kV

Classification: A carpet classified in accordance with the CRI *Carpet Specifiers Handbook*, Appendix A, Carpet Test Methods and Suggested Physical Requirements, page 72, is suitable for residential use if the maximum voltage is 5.0 kV, and suitable for commercial use if the maximum voltage is 3.5 kV.

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