



# COMMERCIAL TESTING COMPANY

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Report Number 06-12109

Masland Carpets, Inc.  
Saraland, Alabama

Test Number 3852-4841-A  
December 6, 2006

## Smoke Density Test (Flaming Exposure)

**Test Method:** The test was conducted in accordance with the ASTM International fire test response standard E 662-05, *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/cm<sup>2</sup> 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: T411 Artesian  
Construction: Loop Pile Carpet Tile  
Secondary Backing: TL

Color: 14110 Sands  
Total Weight: 138.7 oz/yd<sup>2</sup>

### Test Result:

Specimen	Flaming Exposure		
	#1	#2	#3
Ds @ 1.5 minutes	21	16	24
Ds @ 4.0 minutes	321	317	317
Dm	483	471	331
Time to Dm	6.2	5.6	7.0
Dc	40	31	50
Dm (corrected)	443	440	281
Average Ds @ 1.5 minutes	20		
Average Ds @ 4.0 minutes	318		
Average Dm	428		
Average Dm (corrected)	388		

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(Authorized Signature)

The ASTM International E 662 test procedure of Commercial Testing Company is recognized by the United States Department of Commerce, National Institute of Standards and Technology (NIST), through the National Voluntary Laboratory Accreditation Program (NVLAP) for conformance with criteria set forth in NIST Handbook 150:2001, and all requirements of ISO/IEC 17025:1999. This report is provided for the exclusive use of the client to whom it is addressed. It may be used in its entirety to gain product acceptance from duly constituted authorities. The test results presented in this report apply only to the samples tested and are not necessarily indicative of apparent identical or similar materials. Sample selection and identification were provided by the client. A sampling plan, if described in the referenced standard, was not necessarily followed. This report, or the name of Commercial Testing Company, shall not be used under any circumstance in advertising to the general public.

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