



COMMERCIAL TESTING COMPANY

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Report Number 02-09008.3

Masland Carpets, Inc.
Saraland, Alabama

Test Number 3361-1629-C
September 4, 2002

Smoke Density Test

Test Method: The test was conducted in accordance with the ASTM International fire test response standard E 662-01, *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: 7814 Quadrate
Construction: Cut/Uncut Pile
Secondary Backing: Woven Synthetic

Color: 18400
Total Weight: 75.5 oz/yd²

Test Result:

Specimen	Flaming Exposure			Non-Flaming Exposure		
	#1	#2	#3	#1	#2	#3
Ds @ 1.5 minutes	35	26	14	1	1	1
Ds @ 4.0 minutes	143	109	127	42	54	48
Dm	158	117	127	307	321	300
Time to Dm	5.6	4.9	2.9	19.4	14.4	16.6
Dc	12	11	14	1	2	2
Dm (corrected)	146	106	112	306	319	299
Average Ds @ 1.5 minutes	25			1		
Average Ds @ 4.0 minutes	126			48		
Average Dm	134			310		
Average Dm (corrected)	121			308		

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Jonathan Jackson

(Authorized Signature)

The ASTM 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 compliance with Title 15 of the Code of Federal Regulations, Part 285. These criteria encompass the requirements of ISO/IEC Guide 25 and the relevant requirements of ISO 9002 (ANSI/ASQC Q92-1987). 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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