



COMMERCIAL TESTING COMPANY

1215 South Hamilton Street • Post Office Box 985 • Dalton, GA 30722
Telephone (706) 278-3935 • Facsimile (706) 278-3936

Report Number 08-12076

Masland Carpets, Inc.
Saraland, Alabama

Test Number 4042-5065
December 3, 2008

Smoke Density Test

Test Method: The test was conducted in accordance with the ASTM International fire test response standard E 662-06, *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: 7456 Collaboration
Construction: Cut/Uncut Pile
Secondary Backing: Woven Synthetic

Color: 54610 Bark
Total Weight: 61.1 oz/yd²

Test Result:

Specimen	Flaming Exposure			Non-Flaming Exposure		
	#1	#2	#3	#1	#2	#3
Ds @ 1.5 minutes	1	12	14	0	1	1
Ds @ 4.0 minutes	132	102	122	16	19	36
Dm	132	105	127	259	224	187
Time to Dm	3.0	2.4	3.0	13.6	17.6	16.8
Dc	18	14	16	8	2	5
Dm (corrected)	114	92	111	251	223	183
Average Ds @ 1.5 minutes	9			1		
Average Ds @ 4.0 minutes	118			24		
Average Dm	121			223		
Average Dm (corrected)	105			219		

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(Authorized Signature)

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