



# COMMERCIAL TESTING COMPANY

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Report Number 15-04281

Masland Carpets, Inc.  
Saraland, Alabama

Test Number 4639-3963-0415R  
February 11, 2015

## Smoke Density Test

**Test Method:** The test was conducted in accordance with the ASTM International fire test response standard E662-13d, *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: 7882 Emit  
Construction: Cut/Uncut Pile  
Secondary Backing: Woven Synthetic

Color: 87092 TPR  
Roll Number: R0073532551

### Test Result:

Specimen	Flaming Exposure			Non-Flaming Exposure		
	#1	#2	#3	#1	#2	#3
Ds @ 1.5 minutes	89	73	105	1	2	1
Ds @ 4.0 minutes	168	189	173	54	62	64
Dm	185	209	197	264	264	269
Time to Dm	5.2	3.3	4.8	20.0	20.0	20.0
Dc	13	16	14	0	0	0
Dm (corrected)	172	193	183	264	264	269
Average Ds @ 1.5 minutes	89			1		
Average Ds @ 4.0 minutes	177			60		
Average Dm	197			266		
<b>Average Dm (corrected)</b>	<b>183</b>			<b>266</b>		

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*Helen Jackson*

(Authorized Signature)

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