



# COMMERCIAL TESTING COMPANY

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Report Number 07-04360.5

Masland Carpets, Inc.  
Saraland, Alabama

Test Number 3886-7669  
April 25, 2007

GSA Testing  
Flammability – Smoke Density

**Applicable Document:** General Services Administration, National Furniture Center, 3FNE-00-591a *Technical Requirements Booklet for Carpet, Carpet Tiles and Carpet Cushion*, FSC Group 72, Part I, Section A dated April 30, 2002 (Revised November 15, 2002)

**Test Method:** The test was conducted in accordance with the ASTM International fire test response standard E 662, *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. The method employs an electrically heated radiant-energy source positioned 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, in combination with a six-tube gas fueled burner used to apply a row of equidistant flamelets across the lower edge of the specimen. Specimens are exposed to the flaming condition 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. Acceptability is based on the GSA 3FNE-00-591a dated April 30, 2002 (Revised November 15, 2002) *Technical Requirements Booklet*, page 12, where the Average Specific Optical Density (Corrected) is specified to be ≤ 450 (flaming exposure).

**Material Tested:**

GSA Contract Number: GS-27F-5049C

Roll Number: 418986

Special Item Number: 31-303

Lot Number: 62144

Identification: T413 Oceanic

Pile Fiber: Invista 6.6 BCF Nylon

Construction: Loop Pile Carpet Tile

Backing: Marchem V1727-80

Color: 14301 Top Sail

**Test Result:**

| Specimen Number        | 1       | 2    | 3   |
|------------------------|---------|------|-----|
| Dm                     | 505     | 419  | 620 |
| Time to Dm             | 8.8     | 10.8 | 9.2 |
| Dc                     | 37      | 32   | 45  |
| Dm (corrected)         | 467     | 387  | 576 |
| Average Dm (corrected) | 477 (*) |      |     |

The (\*) indicates that the sample tested exceeds the maximum requirement of 450 for smoke density.

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(Authorized Signature)

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