TEST REPORT

DATE: 12/10/2009 TEST NUMBER: 125453

CLIENT Masland Carpets	CLIENT	I Masland Carpets
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	ASTM E662-06 Smoke Density (Flaming) Standard Test Method for
TEST METHOD CONDUCTED	Specific Optical Density of Smoke Generated by Solid Materials also
	referenced as NFPA 258

DESCRIPTION OF TEST SAMPLE				
IDENTIFICATION	7848 Optic			
COLOR	48417 Capella			
ROLL	072258304			
CONSTRUCTION	Loop Pattern			
FIBER	Antron Lumena® Nylon			
BACKING	Synthetic			
REFERENCE	GSA INITIAL GSA SIN #31-301			

GENERAL PRINCIPLE

This procedure is designed to measure the specific optical density of smoke generated by the test specimen within a closed chamber. Each specimen is exposed to an electrically heated radiant-energy source positioned to provide a constant irradiance level of 2.5 watts/square cm on the specimen surface. Measurements are recorded through a photometric system employing a vertical beam of light and a photo detector positioned to detect the attenuation of light transmittance caused by smoke accumulation within the chamber. The light transmittance measurements are used to calculate specific optical density, a quantitative value which can be factored to estimate the smoke potential of materials. Two burning conditions can be simulated by the test apparatus. The radiant heating in the absence of ignition is referred to as the Non-Flaming Mode. A flaming combustion in the presence of supporting radiation constitutes the Flaming Mode.

CONDITIONS						
PREDRYING OF TEST SAMPLE	24 Hours at 140° F					
CONDITIONING OF TEST SAMPLE	24 Hours at 70° F and 50% Relative Humidity					
FURNACE VOLTAGE	109 V	IRRADIANCE	2.5 watts/sq cm			
CHAMBER TEMPERATURE	95° F	CHAMBER PRESSURE	3" H ₂ O			
TEST MODE	Flaming					

AVERAGE MAXIMUM DENSITY CORRECTED (Dmc)		FLAMING	176
AVERAGE SPECIFIC OPTICAL DENSITY AT 4.0 MINU	168		
	Specimen 1	Specimen 2	Specimen 3
Maximum Density (Dm)	156.0	213.0	201.0
Time to Dm (minutes)	2.0	2.5	2.0
Clear Beam (Dc)	13.0	17.0	12.0
Corr. Max Density (Dmc)	143.0	196.0	189.0
Density at 1.5 minutes	75.0	109.0	98.0
Density at 4.0 minutes	136.0	190.0	177.0
Time to 90% Dm (minutes)	1.5	2.0	1.5
Specimen Weight (grams)	12.0	12.3	12.2

^{*} This sample PASSES the requirements of 450 or less as listed in NFPA Life Safety Code 101.

APPROVED BY:

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