



TEST REPORT

DATE: 01/04/2006

TEST NUMBER: 098947

CLIENT	Shaw Contract
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TEST METHOD CONDUCTED	ASTM E662-03 Smoke Density (Flaming) Standard Test Method for Specific Optical Density of Smoke Generated by Solid Materials also referenced as NFPA 258
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DESCRIPTION OF TEST SAMPLE	
IDENTIFICATION	5A070 Mecca
COLOR	-----
ROLL	653976J
CONSTRUCTION	Multi-Level Loop Pile
FIBER	-----
BACKING	Woven Synthetic
REFERENCE	TEST NO: 122105-37

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	111 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		
	151		
AVERAGE SPECIFIC OPTICAL DENSITY AT 4.0 MINUTES	156		
	Specimen 1	Specimen 2	Specimen 3
Maximum Density (Dm)	168.0	171.0	172.0
Time to Dm (minutes)	2.2	2.1	2.1
Clear Beam (Dc)	18.0	20.0	20.0
Corr. Max Density (Dmc)	150.0	151.0	152.0
Density at 1.5 minutes	117.0	117.0	117.0
Density at 4.0 minutes	154.0	160.0	153.0
Time to 90% Dm (minutes)	1.8	1.7	1.7
Specimen Weight (grams)	11.3	11.3	11.1

APPROVED BY:

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TEST REPORT

DATE: 01/04/2006

TEST NUMBER: 098947

CLIENT	Shaw Contract
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TEST METHOD CONDUCTED	AATCC 134-01 Electrostatic Propensity of Carpets
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DESCRIPTION OF TEST SAMPLE	
IDENTIFICATION	5A070 Mecca
COLOR	-----
ROLL	653976J
CONSTRUCTION	Multi-Level Loop Pile
FIBER	-----
BACKING	Woven Synthetic
REFERENCE	TEST NO: 122105-37

GENERAL PRINCIPLE

This method is designed to assess the static propensity of flooring material by controlled laboratory simulation of conditions which are known from experience to be strongly contributory to excessive accumulation of static charges.

A flooring material preconditioned to equilibrium at controlled atmospheric conditions is walked on by a test subject in a specified manner with specified shoe soles. The static charges which build up on the tester are monitored continuously by a recorder.

A neolite shoe sole has been chosen as the primary reference material because its static performance is much like that of many common leathers. It is a commonly used shoe sole material and can be easily cleaned, while its chemical and physical properties are quite uniform.

A chrome tanned leather shoe sole has been chosen for a secondary reference material because it is representative of a certain class of leathers whose performance differs significantly from that of neolite soles on certain carpet fiber. Statistically, chrome tanned leather comprises a very small percentage of the shoe sole market, but must be considered in critical applications.

TEST CONDITIONS	
TEST CONDITIONS	The sample is conditioned to equilibrium and tested at $70 \pm 2^\circ \text{F}$ and $20 \pm 2\%$ relative humidity
SAMPLE PREPARATION	Tested As Received
SUBSTRATE	40 Ounce Rubberized Jute/Hair Pad

	DAY 1	DAY 2	AVERAGE
TEST I: Step Test/Neolite Sole	-1.5 KV	-1.6 KV	-1.6 KV
TEST II: Scuff Test/Neolite Sole	-1.8 KV	-1.8 KV	-1.8 KV
TEST III: Step Test/Leather Sole	-0.9 KV	-1.1 KV	-1.0 KV
TEST IV: Scuff Test/Leather Sole	-1.1 KV	-1.2 KV	-1.2 KV
MAXIMUM AVERAGE VOLTAGE		NEG 1.8 KV	

"The results of this test relate to the sample of flooring material tested. Its static performance may be altered in service as a result of wear, soiling, cleaning, temperature, relative humidity, etc..."

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