

TEST REPORT

TEST NUMBER: 128050

| Date: 0/20/2010 | IEOT NOMBER. | 120000 |
|-----------------------|--|--------|
| CLIENT | Patcraft - DW | |
| | | |
| TEST METHOD CONDUCTED | AATCC 134-06 Electrostatic Propensity of Carpets | |

| | DESCRIPTION OF TEST SAMPLE |
|----------------|----------------------------|
| IDENTIFICATION | I0247 Manner |
| COLOR | |
| ROLL | 328906-W |
| CONSTRUCTION | Loop Pile |
| FIBER | |
| BACKING | ClassicBac |
| REFERENCE | TEST NO: 031710-5 |

GENERAL PRINCIPLE

Date: 3/26/2010

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 guite 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° 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 | +0.2 KV | +0.1 KV | +0.2 KV |
| TEST II: Scuff Test/Neolite Sole | -1.0 KV | -0.8 KV | -0.9 KV |
| TEST III: Step Test/Leather Sole | +2.1 KV | +1.9 KV | +2.0 KV |
| TEST IV: Scuff Test/Leather Sole | +1.8 KV | +1.6 KV | +1.7 KV |
| MAXIMUM AVE | RAGE VOLTAGE | POS 2.0 | 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..."

Lary atlury APPROVED BY:

This facility is accredited by the National Voluntary Laboratory Accreditation Program for the specific scope of accreditation under Lab Code 100297. This accreditation does not constitute an endorsement, certification, or approval by NIST or any agency of the United States Government for the product tested. This report is provided for the exclusive use of the client to whom it is addressed. It may be used in its entirety to gain product acceptance from duly constituted authorities. This report applies only to those samples tested and is not necessarily indicative of apparently identical of similar products. This report, or the name of Professional Testing Laboratory hc. shall not be used under any circumstance in advertising to the general public.

714 Glenwood Place

Fax: 706-226-6787



TEST REPORT

| Date: 3/26/2010 | TEST NUMBER: 128050 |
|-----------------------|--|
| CLIENT | Patcraft - DW |
| | |
| TEST METHOD CONDUCTED | ASTM E662-06 Smoke Density (Flaming) Standard Test Method for Specific Optical Density of Smoke Generated by Solid Materials also referenced as NFPA 258 |

| | DESCRIPTION OF TEST SAMPLE |
|----------------|----------------------------|
| IDENTIFICATION | l0247 Manner |
| COLOR | |
| ROLL | 328906-W |
| CONSTRUCTION | Loop Pile |
| FIBER | |
| BACKING | ClassicBac |
| REFERENCE | TEST NO: 031710-5 |

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 | 110 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 | | 258 | |
|---|------------|------------|------------|
| AVERAGE SPECIFIC OPTICAL DENSITY AT 4.0 MINUTES | | | 265 |
| | Specimen 1 | Specimen 2 | Specimen 3 |
| Maximum Density (Dm) | 309.0 | 261.0 | 272.0 |
| Time to Dm (minutes) | 3.0 | 2.5 | 2.5 |
| Clear Beam (Dc) | 23.0 | 23.0 | 23.0 |
| Corr. Max Density (Dmc) | 286.0 | 238.0 | 249.0 |
| Density at 1.5 minutes | 48.0 | 59.0 | 54.0 |
| Density at 4.0 minutes | 284.0 | 254.0 | 258.0 |
| Time to 90% Dm (minutes) | 2.5 | 2.0 | 2.0 |
| Specimen Weight (grams) | 13.6 | 14.0 | 13.6 |

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

APPROVED BY:

Lary atlury

This facility is accredited by the National Voluntary Laboratory Accreditation Program for the specific scope of accreditation under Lab Code 100297. This accreditation does not constitute an endorsement, certification, or approval by NIST or any agency of the United States Government for the product tested. This report is provided for the exclusive use of the client to whom it is addressed. It may be used in its entirety to gain product acceptance from duly constituted authorities. This report applies only to those samples tested and is not necessarily indicative of apparently identical of similar products. This report, or the name of Professional Testing Laboratory hc. shall not be used under any circumstance in advertising to the general public.

714 Glenwood Place

Phone: 706-226-3283



TEST REPORT

| DATE: 05/19/2010 | TEST NUMBER : 129673 |
|-----------------------|---|
| CLIENT | Patcraft - Designweave |
| | |
| | ASTM E648-08 Standard Test Method for Critical Radiant Flux of |
| TEST METHOD CONDUCTED | Floor Covering Systems Using A Radiant Heat Energy Source, also |
| | I referenced as NEPA 253 and FIM Standard 3/2 |

| | DESCRIPTION OF TEST SAMPLE |
|----------------|----------------------------|
| IDENTIFICATION | l0247 Manner |
| COLOR | 00209 |
| ROLL | 339480-W |
| CONSTRUCTION | Multi-Level Loop Pile |
| FIBER | |
| BACKING | ClassicBac |
| REFERENCE | TEST NO: 051010-9 |

GENERAL PRINCIPLE

This procedure is designed to measure the critical radiant flux at flame out of horizontally mounted floor covering systems exposed to a flaming ignition in a test chamber which provides a graded radiant heat energy environment. The imposed radiant flux simulates the thermal radiation levels likely to impinge on the floors of a building whose upper surfaces are heated by flames from a fully developed fire in an adjacent room or compartment. The test result is an average critical radiant flux (watts/square cm) which indicates the level of radiant heat energy required to sustain flame propagation in the flooring system once it has been ignited. A minimum of three test specimens are tested and the results are averaged. Theoretically, if a room fire does not impose a radiant flux that exceeds this critical level on a corridor floor covering system, flame spread will not occur.

The NFPA Life Safety Code 101 specifies as Class 1 Critical Radiant Flux of .45 watts/sq cm or higher and Class 2 Critical Radiant Flux as .22 - .44 watts/sq cm.

| FLOORING SYSTEM ASSEMBLY | | | |
|--------------------------|----------------------------|--------------|--|
| SUBSTRATE | Mineral-Fiber/Cement Board | UNDERLAYMENT | Direct Glue Down |
| ADHESIVE | Subset 1000 | CONDITIONING | Minimum of 96 hours at 70 \pm 5° F and 50 \pm 5% |
| | | | relative humidity |

This test report relates to the installation in accordance with the criteria set forth in the report. Any variation in the installation criteria may produce different results.

| Specimen 1 43 cm 20 minutes 0.45 wat | |
|--------------------------------------|--------------|
| Speciment 43 cm 27 minutes 0.45 wat | ts/square cm |
| Specimen 245 cm28 minutes0.43 watt | ts/square cm |
| Specimen 340 cm25 minutes0.50 watt | ts/square cm |

| Average Critical Radiant Flux | 0.46 Watts/Square Cm |
|-------------------------------|----------------------|
| Standard Deviation | 0.03 Watts/Square Cm |
| Coefficient of Variation | 6.4 % |

* NOTE: Meets or exceeds Class 1 rating as specified in NFPA Life Safety Code 101 and IBC 804.2 Classification.

Lang aflury APPROVED BY:



This facility is accredited by the National Voluntary Laboratory Accreditation Program for the specific scope of accreditation under Lab Code 100297. This accreditation does not constitute an endorsement, certification, or approval by NIST or any agency of the United States Government for the product tested. This report is provided for the exclusive use of the client to whom it is addressed. It may be used in its entirety to gain product acceptance from duly constituted authorities. This report applies only to those samples tested and is not necessarily indicative of apparently identical of similar products. This report, or the name of Professional Testing Laboratory hc. shall not be used under any circumstance in advertising to the general public.

Dalton, GA 30721 714 Glenwood Place