

P.O. Box 1948
Dalton, Georgia 30722-1948 • Phone 706-278-3013 • Fax 706-272-7057 • E-mail: info@ittslab.com

TEST REPORT

Customer: Wuxi Fuxing Carpet Co., Ltd

July 8, 2009

Subject: Specimens of the submitted sample were prepared and tested in accordance with the procedures proposed by the National Institute of Standards and Technology (formerly National Bureau of Standards), Technical Note 708 and NFPA 258, ASTM E 662-06.

SMOKE DENSITY TEST (NIST)

Operating Conditions

Irradiance: 2.5 watts/cm² G Factor 132
Thermal Exposure: Non-flaming
Furnace Voltage: 93
Burner Fuel: --

Sample Description

TARAX / PRO-PANTONE Nylon 6,6
Cushion Backing of High Density Recycled Non-Woven
with Bitumen, PVC Free

Test Results

Chamber Temperature, °F (start)
Chamber Pressure
Minimum Transmittance (TM), %
at, minutes
Maximum Specific Optical Density (DM)
Clear Beam, (DC)
DM, CORRECTED (DMC)
Specific Optical Density at 1.5 minutes
Specific Optical Density at 4.0 minutes
Time to 90% DM, minutes
Time to DS = 16, minutes

#1	#2	#3	Average
95	95	95	
Maintained positive, under 3" H ₂ O			
24%	14%	10%	
20.00	20.00	20.00	20.00
82	113	132	109
4	4	4	4
78	109	128	105
2	1	1	1
16	18	19	18
15.00	15.40	16.00	15.47
4.10	4.00	4.00	4.03

L. Kent Suddeth
Executive Vice President

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SMOKE DENSITY TEST (NIST)

Operating Conditions

Irradiance: 2.5 watts/cm² G Factor 132
Thermal Exposure: Flaming 90
Furnace Voltage: 90
Burner Fuel: Propane

Sample Description

TARAX / PRO-PANTONE Nylon 6,6
Cushion Backing of High Density Recycled Non-Woven
with Bitumen, PVC Free

Test Results

Chamber Temperature, °F (start)

#1	#2	#3	Average
95	95	95	

Chamber Pressure

Maintained positive, under 3" H₂O

Minimum Transmittance (TM), %

17%	14%	10%	
10.20	11.00	10.40	10.53
234	245	264	248
37	29	33	33
197	216	231	215
18	14	20	17
147	161	166	158
8.00	7.00	8.00	7.67
2.00	2.00	2.00	2.00

at, minutes

Maximum Specific Optical Density (DM)

Clear Beam, (DC)

DM, CORRECTED (DMC)

Specific Optical Density at 1.5 minutes

Specific Optical Density at 4.0 minutes

Time to 90% DM, minutes

Time to DS = 16, minutes

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TEST REPORT

Customer: Wuxi Fuxing Carpet Co., Ltd

July 7, 2009

Subject: Sample(s) of carpet submitted for testing by the customer and identified below:

Sample Identification: TARAX / PRO-PANTONE Nylon 6,6
Cushion Backing of High Density Recycled Non-Woven
with Bitumen, PVC Free

Test Method Conducted
AATCC Test Method 165
Colorfastness to Crocking: Carpets

Purpose and Scope

This test method is designed to determine the degree of color transfer from the surface of carpets to other surfaces by rubbing. The intent is to reproduce as nearly as possible true-to-life situations in all constructions whether dyed, printed or otherwise colored.

Procedure

Test procedures employing white test cloths, both dry and wet with water are given.

Test Specimen Identification	Wet Crocking Rating	Dry Crocking Rating
See Above	5	5

Key to Ratings	
5	Negligible or no stain
4	Slight stain
3	Noticeable stain
2	Considerable stain
1	Severe stain



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Customer: Wuxi Fuxing Carpet Co., Ltd

July 7, 2009

Subject: Sample(s) of carpet submitted for testing by the customer and identified below:

Sample Identification: TARAX / PRO-PANTONE Nylon 6,6
Cushion Backing of High Density Recycled Non-Woven
with Bitumen, PVC Free

Test Method Conducted
AATCC Test Method 16 Option E
Colorfastness to Light (Water-Cooled Xenon Arc)

Purpose and Scope

This test method provides the general principles and procedures which are currently in use for determining the colorfastness, to light of textile materials.


Procedure

Samples of the textile material to be tested and the agreed upon comparison standard(s) are exposed simultaneously to a light source under specified conditions. The colorfastness to light of the specimen is evaluated by comparison of the color change of the exposed portion to the masked or control portion of the test specimen using the AATCC Gray Scale for Color Change or by instrumental color measurement.

Test Specimen Identification	Number of Cycles	Rating
See Above	2 (40 AFU's)	5

Key to Ratings

5	Negligible or no change
4	Slight change
3	Noticeable change
2	Considerable change
1	Severe change


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TEST REPORT

Customer: Wuxi Fuxing Carpet Co., Ltd

July 7, 2009

Subject: Sample(s) of carpet submitted for testing by the customer and identified below:**Sample Identification:** TARAX / PRO-PANTONE Nylon 6,6
Cushion Backing of High Density Recycled Non-Woven
with Bitumen, PVC Free**Test Method Conducted**
ASTM D 3936 Delamination Strength of Secondary Backing of Pile Floor Coverings**Scope:**

This method covers the determination of the delamination strength of secondary backing adhered to a finished pile floor covering.

TEST RESULTS			
	--	--	--
Average: No Separation			



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TEST REPORT

Customer: Wuxi Fuxing Carpet Co., Ltd

July 7, 2009

Subject: Sample(s) of carpet submitted for testing by the customer and identified below:

Sample Identification: TARAX / PRO-PANTONE Nylon 6,6
Cushion Backing of High Density Recycled Non-Woven
with Bitumen, PVC Free

Test Method Conducted
ITTS 004
AACHEN Dimensional Stability

Purpose and Scope

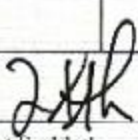
This test procedure measures the dimensional stability of textile floor coverings both modular and broadloom when subjected to varied moisture, heat and dry conditions.

Test Condition	Measurement	Percent Change
M ₀	19.6575	
MT ₁	19.6525	-0.025
MT ₂	19.6550	-0.013
MT ₃	19.6500	-0.038
MT ₄	19.6513	-0.032 -0.0063"

Test Condition Key

M₀ Machine Direction Original Measurement
C₀ Cross Direction Original Measurement
T₁ Two (2) hours in an oven at 60° C
T₂ Two (2) hours in a .1% solution at 20° C
T₃ Twenty-four (24) hours in an oven at 60° C
T₄ Forty-eight (48) hours in standard climate at 21° C & 65% RH

Test Condition	Measurement	Percent Change
C ₀	19.6525	
CT ₁	19.6413	-0.057
CT ₂	19.6400	-0.064
CT ₃	19.6350	-0.089
CT ₄	19.6375	-0.076 -0.0150"


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TEST REPORT

Customer: Wuxi Fuxing Carpet Co., Ltd

July 8, 2009

Subject: Sample(s) of carpet submitted for testing by the customer and identified below:

Sample Identification: TARAX / PRO-PANTONE Nylon 6,6
Cushion Backing of High Density Recycled Non-Woven
with Bitumen, PVC Free

Test Method Conducted AATCC 134-1996 Electrostatic Propensity of Carpets

Purpose and Scope

This test method is designed to assess the static generating propensity of carpets developed when a person walks across them by controlled laboratory simulation of conditions which may be met in practice, and more particularly, with respect to those conditions which are known from experience to be strongly contributory to excessive accumulation of static charges.

Test Conditions:**Chamber Temperature:** 70° F.**Chamber Relative Humidity:** 20%


Test Results:	Sole	Underlay	Maximum Voltage 1 (kV)	Maximum Voltage 2 (kV)	Averages (kV)
Test I Step Test	Neolite	Plate	Neg. 1.0	Neg. 1.0	Neg. 1.0
Test II Scuff Test	Neolite	Plate	Neg. 1.0	Neg. 0.9	Neg. 1.0
Test III Step Test	Leather	Plate	Neg. 0.7	--	--
Test IV Scuff Test	Leather	Plate	Neg. 0.3	--	--

Soles:

- a) Neolite XS 664
- b) Suede Leather

Underlayment:

- a) Plate: Earth grounded metal plate
- b) H/J: Standard 40 oz./yd² rubberized Hair/Jute cushion



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TEST REPORT

Customer: Wuxi Fuxing Carpet Co. Ltd

July 7, 2009

Subject: Specimens of the submitted sample were prepared and tested in accordance with
ASTM E 648-06 and/or Federal Test Method 372. NFPA 253

FLOORING RADIANT PANEL TEST**Sample Description**

TARAX / PRO-PANTONE Nylon 6,6
Cushion Backing of High Density Recycled Non-Woven
with Bitumen, PVC Free


Test Assembly

Mounted on 6mm FRC Board
(Using Premium Multi Purpose Adhesive)

<u>Test Results</u>	<u>Specimen No. 1</u>	<u>Specimen No. 2</u>	<u>Specimen No. 3</u>
Critical Radiant Flux	0.79 watts/cm ²	0.92 watts/cm ²	0.88 watts/cm ²
Total Burn Length	25.0 cm	19.0 cm	21.0 cm
Flame Front Out	16.0 minutes	16.0 minutes	16.0 minutes

Average Critical Radiant Flux0.86 watts/cm²**Estimated Standard Deviation**0.07 watts/cm²

8.0% coefficient of variation


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TEST REPORT

Customer: Wuxi Fuxing Carpet Co., Ltd

July 16, 2009

Subject: Sample(s) of carpet submitted for testing by the Customer and identified below:

Sample Identification: TARAX / PRO-PANTONE Nylon 6,6
Cushion Backing of High Density Recycled Non-Woven
with Bitumen, PVC Free

Test Method Conducted
ASTM D-5252 Hexapod Drum Tester
ISO/TR 10361 Hexapod Tumbler
Ratings Based on CRI TM-101 Photographic Scales

APPARATUS: WIRA INSTRUMENTATION HEXAPOD TUMBLER CARPET TESTER**PROCEDURE:**

The test specimen described above was subjected to the reported cycles of "Hexapod" tumbling, removing the specimen every 2,000 cycles for restoration by vacuuming.

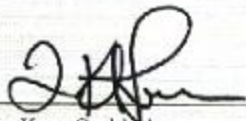
An Electrolux upright vacuum cleaner (Discovery II) was used, making four (4) forward and backward passes along the length of the specimen.

The samples were assessed using day-light equivalent vertical lighting (1500 lux). Samples were viewed at an angle of 45 degrees from 1½ meter distance, judging from all directions.

TEST RESULTS:

NUMBER OF HEXAPOD CYCLES	OVERALL APPEARANCE CHANGE
12,000	3.0

Key to Ratings
5 = Negligible or no change
4 = Slight change
3 = Moderate change
2 = Considerable change
1 = Severe change


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Test Facility:
1265 Kennestone Circle
Marietta, GA 30066

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Report Number
813287
Page 1 of 1

Independent Textile Testing Services, Inc
P.O. Box 1948
Dalton, GA 30772

July 13, 2009
P.O. #: 60109

Attn: Kent Suddeth

MICROBIAL ASSAYS TEST REPORT

Sample Information: Wuxi Fuxing / Tile
1997

Date Received: July 03, 2009
Date in Test: July 08, 2009
Date Completed: July 09, 2009

Test Information: Test Code: 110730
AATCC Method 174, Part I
Procedure #: MA214ITT.201

Sample ID	Carpet Side	<i>Staphylococcus aureus</i> ATCC 6538	<i>Klebsiella pneumoniae</i> ATCC 4352
1	Fibers	I	I
	Backing	CZ / 2 mm	NI

Additional Test Information:

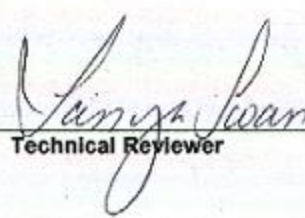
Sample Size: 20 mm disc
Culture Medium: Nutrient Broth
Inoculum Carrier: Sterile Water
Growth Medium: Nutrient Agar

Interpretation of Results:

NI = No Inhibition of growth
CZ = Clear Zone of Inhibition / zone width
I = Inhibition of growth under the sample only

General Services Administration (GSA) Technical Requirements:

The zone of inhibition must be a minimum of 2 mm for Gram positive bacteria and a minimum of 1 mm for Gram negative bacteria to be acceptable. In addition, any growth in the contact area is unacceptable. One specimen (fiber up or fiber down) must pass the test.


Technical Reviewer

07-13-09
Date

Testing conducted in accordance with current Good Manufacturing Practices.



Test Facility:
1265 Kennestone Circle
Marietta, GA 30066

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Report Number
813288
Page 1 of 1

Independent Textile Testing Services, Inc
P.O. Box 1948
Dalton, GA 30772

July 14, 2009
P.O. #: 60109

Attn: Kent Suddeth

MICROBIAL ASSAYS TEST REPORT

Sample Information: Wuxi Fuxing / Tile
1997

Date Received: July 03, 2009
Date in Test: July 08, 2009
Date Completed: July 10, 2009

Test Information: Test Code: 110740
AATCC Method 174, Part II
Procedure #: MA215ITT.201

Inoculum Concentration (CFU / 0.1 mL)	<i>Staphylococcus aureus</i> ATCC 8538	<i>Klebsiella pneumoniae</i> ATCC 4352
	2.2×10^5	1.6×10^5

Sample # 1 (CFU / sample)	Initial Contact Time	1.4×10^5	2.0×10^5
	24 Hour Contact Time	$< 1.0 \times 10^2$	$< 1.0 \times 10^2$
	Percent Reduction	$> 99.93 \%$	$> 99.95 \%$

Additional Test Information:

Pre-Treatment: Sample(s) pre-wet with sterile water containing 0.05 % Triton X-100.
Sample Size: 48 mm disc
Culture Medium: Soybean Casein Digest Broth
Inoculum Carrier: Phosphate Buffered Water
Growth Medium: Nutrient Agar
Neutralizer: Lethen Broth

General Services Administration (GSA) Technical Requirements:

A minimum of 90 percent reduction against each organism is required.

Kenny Swann 07-14-09
Technical Reviewer Date

Testing conducted in accordance with current Good Manufacturing Practices.



Test Facility:
1265 Kennestone Circle
Marietta, GA 30066

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Report Number

813289

Page 1 of 1

Independent Textile Testing Services, Inc
P.O. Box 1948
Dalton, GA 30772

July 17, 2009
P.O. #: 60109

Attn: Kent Suddeth

MICROBIAL ASSAYS TEST REPORT

Sample Information: Wuxi Fuxing / Tile
1997

Date Received: July 03, 2009

Date in Test: July 08, 2009

Date Completed: July 15, 2009

Test Information: Test Code: 110750
AATCC Method 174, Part III
Procedure #: MA216ITT.201

Sample ID	<i>Aspergillus niger</i> ATCC 6275 Inoculum Level: 1.1×10^6 CFU / 1.0 mL	
	Fibers	Backing
1	NG / NZ	Micro / 10 %

Additional Test Information:

Pre-Treatment: Sample(s) pre-wet with sterile water containing 0.05 % Triton X-100.

Sample Size: 38 mm disc

Culture Medium: Sabouraud Dextrose Agar

Inoculum Carrier: Sterile Water

Growth Medium: Sabouraud Dextrose Agar

Interpretation of Results:

NG = No growth on sample / growth-free zone width

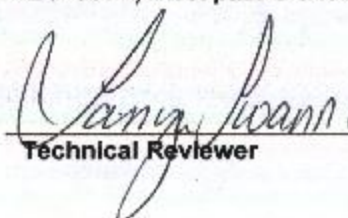
Micro = Microscopic growth on sample (visible only under the microscope) / percentage of surface growth

Macro = Macroscopic growth on sample (visible to the eye) / percentage of surface growth

NZ = No Zone

General Services Administration (GSA) Technical Requirements:

Any growth on the specimen is unacceptable. One specimen (fiber up or fiber down) must pass the test.

 07-17-09
Technical Reviewer Date

Testing conducted in accordance with current Good Manufacturing Practices.

