

TECHNICAL SPECIFICATIONS

Quality	: MSN-900
Yarn Fiber	: 100% Polypropylene (PP) Solution Dyed
Gauge and Structure	: 1/12" Multi-Level Loop Machine Tufted
Size	: 50cm x 50cm
Packing	: 20pcs./box (5m ²)
Pile Weight	: ± 20oz./yd ² (680g/m ²)
Total Weight	: ± 4,800g./m ²
Pile Height	: ± 3.5 / 4.0 / 4.5mm
Total Height	: ± 7.0mm
Primary Backing	: 100% Spun Bonded Polyester (Non-Woven)
Secondary Backing	: PVC with Glass Fiber
Flooring Radiant Panel	: BS-4790 / ASTM E648-17 / NFPA 253
Smoke Density	: ASTM E662-15a / NFPA 258
Electrostatic Propensity	: AATCC-134-2011 ≤ 1.9kv
Colorfastness	: AATCC 16.3 (Light) / AATCC 107 (Water) ≥ 5.0
Dimensional Stability	: ASTM D7570 / AACHEN / ISO2551
Delamination Strength	: ASTM D 3936 (No Separation of Secondary Backing)
Tuft Bind of Pile	: ASTM D 1335 (Average : 8.1 lbs)
Hexapod Drum Test	: ASTM-D5252 / ASTM D-7330 / ISO/TR 10361
Environmental Cert.	: C R I Green Label Plus GLP100036
Quality Management	: ISO-9001:2015 / ISO-14001:2015 / ISO45001:2018

Independent Textile
Testings
Service, Inc.

Test Number: 182123-1

PO Box 1948 - 1503 East Morris Street - Dalton, GA 30722
Phone: 706-278-3013 • Fax: 706-272-7057 • E-mail: info@ittslab.com

Test Report

September 26, 2018

Subject: Specimens of the submitted sample were prepared and tested in accordance with
ASTM E 648-17 and/or Federal Test Method 372. NFPA 253

FLOORING RADIANT PANEL TEST

Sample Description

PP Carpet Tiles
(PVC Backing)

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	0.56 watts/cm ²	0.41 watts/cm ²	0.50 watts/cm ²
Total Burn Length	37.0 cm	46.0 cm	40.0 cm
Flame Front Out	21.0 minutes	21.0 minutes	20.0 minutes

Average Critical Radiant Flux 0.49 watts/cm²
Estimated Standard Deviation 0.08 watts/cm²
15.4% coefficient of variation



President L. Kent Suddeth

Independent Textile

Test Number: 180967-2



Service, Inc.

PO Box 1948 - 1503 East Morris Street - Dalton, GA 30722
Phone: 706-278-3013 • Fax: 706-272-7057 • E-mail: info@ittslab.com

Test Report

August 15, 2018

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 662-15a.

SMOKE DENSITY TEST (NIST)

Operating Conditions

Irradiance: 2.5 watts/cm² G Factor 132
Thermal Exposure: Flaming
Furnace Voltage: 98
Burner Fuel: Propane

Sample Description

PP Carpet Tiles (PVC backing)

Test Results

	#1	#2	#3	Average
Chamber Temperature, °F (start)	95	95	95	
Chamber Pressure	Maintained positive, under 3" H ₂ O			
Minimum Transmittance (TM), %	83%	16%	11%	
at, minutes	9.02	2.65	9.83	7.17
Maximum Specific Optical Density (DM)	275	237	259	257
Clear Beam, (DC)	53	45	37	45
DM, CORRECTED (DMC)	222	192	222	212
Specific Optical Density at 1.5 minutes	109	127	113	116
Specific Optical Density at 4.0 minutes	249	216	171	212
Time to 90% DM, minutes	6.73	2.32	7.18	5.41
Time to DS = 16, minutes	0.83	0.70	0.85	0.79

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Test Report

August 15, 2018

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

Sample Identification: PP Carpet Tiles

Test Method Conducted
AATCC 134-2011
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	Neollite	Plate	Neg. 0.1	Neg. 0.1	Neg. 0.1
Test II Scuff Test	Neollite	Plate	Pos. 2.0	Pos. 1.8	Pos. 1.9
Test III Step Test	Leather	Plate	Pos. 0.4	--	--
Test IV Scuff Test	Leather	Plate	Pos. 0.4	--	--

Soles:

- a) Neollite 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

August 15, 2018

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

Sample Identification: PP Carpet Tiles

Test Method Conducted
AATCC Test Method 107
Colorfastness to Water

Purpose and Scope

This test method is designed to measure the resistance to water of dyed, printed, or otherwise colored textile yarns and fabrics of all kinds.

Procedure

The specimen, backed by multifiber test fabric, is immersed in water under specified conditions of temperature and time, and then placed between glass or plastic plates under specified conditions of pressure, temperature and time. The change in color of the specimen and the staining of the attached multifiber test fabric are observed.

Test Specimen Identification	Gray Scale	Transference Scale
See Above:	5	5

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

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Test Report

August 15, 2018

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

Sample Identification: PP Carpet Tiles

Test Method Conducted
AATCC Test Method 16.3
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 No: 180967-2

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Test Report

August 15, 2018

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

Sample Identification: PP Carpet Tiles (PVC backing)

Test Method Conducted
ASTM D7570
Standard Test Method for Evaluation of Dimensional Stability of Pile Yarn Floor Covering
(AACHEN/ISO2551)

Purpose and Scope

This test method covers the determination of dimensional changes in the lengthwise and widthwise direction and distortion likely to occur when pile floor coverings are exposed to various conditions of moisture and heat.

Test Condition	Measurement	Percent Change
M ₀	19.7050	
MT ₁	19.6975	-0.038
MT ₂	19.7000	-0.025
MT ₃	19.6950	-0.051
MT ₄	19.7000	-0.025 -0.0050"

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	19.7175	
CT ₁	19.7113	-0.032
CT ₂	19.7163	-0.006
CT ₃	19.6938	-0.120
CT ₄	19.7125	-0.025 -0.0050"

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Test Report

August 15, 2018

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

Sample Identification: PP Carpet Tiles (PVC backing)

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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August 15, 2018

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

Sample Identification: PP Carpet Tiles

Test Method Conducted
ASTM D-5252 Hexapod Drum Tester
ISO/TR 10361 Hexapod Tumbler
Ratings Based on CRI TM-101 Photographic Scales
ASTM D-7330 Assessment of Surface Appearance Change in Pile Floor Coverings

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.

A 6.7 Amp Shark handheld w/rotary brush 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	2.0

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



President L. Kent Suddeth

Our letters and reports are for the exclusive use of the customer to whom they are addressed, and their communication to any others or the use of the name of Independent Textile Testing Service, Inc., must receive our prior written approval. Our letters and reports apply only to the sample tested and are not necessarily indicative of the qualities of apparently identical or similar products. The reports and letters and the name of Independent Textile Testing Service, Inc., are not to be used under any circumstances in advertising to the general public.

Independent  Textile
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Test No: 180967-1

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Test Report

August 15, 2018

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

Sample Identification: PP Carpet Tiles

Test Method Conducted ASTM D 1335 Tuft Bind of Pile Floor Coverings
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Scope:

This test method covers the determination of the force required to pull a tuft completely out of a cut pile floor covering or to pull one or both legs of a loop free from the backing of looped pile floor coverings.

Test Results

1)	7.3	6)	6.9	11)	9.4
2)	10.1	7)	6.9	12)	10.3
3)	8.7	8)	8.5	13)	8.6
4)	7.6	9)	8.8	14)	6.6
5)	6.9	10)	7.7	15)	7.4

Average Tuft Bind: 8.1 lbs.



President L. Kent Suddeth

Page 1 of 1



QUALITY MANAGEMENT SYSTEM CERTIFICATE

Certificate No. 00120Q36369R4M/3600

We hereby certify that

Unified Social Credit Code: 9136050076335520R

Dongxing Road, High-Tech Industrial Development Zone, Xinyu City, Jiangxi Province China

by reason of its
Quality Management System
has been awarded this certificate for compliance with the standard
GB/T 19001-2016 / ISO 9001:2015
The Quality Management System Applies in the following area:

Design and Production of Carpets

Certified since: October 13, 2008 Valid from: August 17, 2020 Valid until: September 25, 2023

After a surveillance cycle, the certificate is valid only when used together with an Acceptance Notice of Surveillance Audit issued by CQC.
Please access www.cqc.com.cn for checking validity of the certificate.
This certificate and its relevant information can query in the website of Certification and Accreditation Administration of the People's Republic of China (www.cca.gov.cn).



中国认可
国际互认
管理体系
MANAGEMENT SYSTEM
CNAS C001-M

陆梅
Signed by: Lu Mei



CHINA QUALITY CERTIFICATION CENTRE

Section 9, No.188, Nansihuan(the South Fourth Ring Road) Xilu(West Road), Beijing 100070,China

<http://www.cqc.com.cn>

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ENVIRONMENTAL MANAGEMENT SYSTEM CERTIFICATE

Certificate No. 00120E32742R4M/3600

We hereby certify that

Dongxing Road, High-Tech Industrial Development Zone, Xinyu City, Jiangxi Province China

by reason of its

Environmental Management System

has been awarded this certificate for compliance with the standard

GB/T 24001-2016 / ISO 14001:2015

The Environmental Management System Applies in the following area:

Design and Production of Carpets and Related Management Activities

Certified since: October 9, 2008 Valid from: August 19, 2020 Valid until: September 23, 2023

After a surveillance cycle, the certificate is valid only when used together with an Acceptance Notice of Surveillance Audit issued by CQC.
Please access www.cqc.com.cn for checking validity of the certificate.

This certificate and its relevant information can query in the website of Certification and Accreditation Administration of the People's Republic of China (www.cnca.gov.cn).



陆梅
Signed by: Lu Mei



CHINA QUALITY CERTIFICATION CENTRE

Section 9, No.188, Nansihuan(the South Fourth Ring Road) Xilu(West Road), Beijing 100070,China

<http://www.cqc.com.cn>



OCCUPATIONAL HEALTH AND SAFETY MANAGEMENT SYSTEM CERTIFICATE

Certificate No. 00118S31114R2M/3600

We hereby certify that

Dongxing Road, High-Tech Industrial Development Zone, Xinyu City, Jiangxi Province China

has been awarded this certificate for compliance with the standard

GB/T 45001-2020 / ISO45001:2018

The Occupational Health and Safety Management applies in the following area:

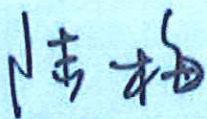
Design and Production of Carpets and Related Management Activities

Certified since: November 14, 2012 Valid from: August 18, 2020 Valid until: October 13, 2021

After a surveillance cycle, the certificate is valid only when used together with an Acceptance Notice of Surveillance Audit issued by CQC.
Please access www.cqc.com.cn for checking validity of the certificate.

This certificate and its relevant information can query in the website of Certification and Accreditation Administration of the People's Republic of China (www.cnca.gov.cn).




Signed by: Lu Mei



CHINA QUALITY CERTIFICATION CENTRE

Section 9, No.188, Nansihuan(the South Fourth Ring Road) Xilu(West Road), Beijing 100070,China
<http://www.cqc.com.cn>

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GREEN LABEL PLUS

INDOOR AIR QUALITY TESTING PROGRAM
THIS CERTIFIES THAT



Address: No. 198 Nanxing Road, Jiashan County,
Jiaxing, Zhejiang China

HAS MET THE REQUIREMENTS OF
THE CARPET AND RUG INSTITUTE'S GREEN
LABEL PLUS PROGRAM FOR CATEGORY:

31X Pre-dyed Polypropylene with PVC Backing

Range of Total VOCs
0.5 mg/m³ or less

Product Type: Modular Tile

Joe W. Yarbrough, President
The Carpet and Rug Institute, Inc.

Certification Date: 01/31/2018
Expiration Date: 12/31/2021

To view all GLP-Certified products visit www.carpet-rug.org/glpproducts.

Page 1 of 1



THE CARPET AND RUG INSTITUTE
100 SOUTH HAMILTON STREET
DALTON GA 30720-4612 UNITED STATES



GLP100036

This product complies with
California DPH Section 01350
Version 1.2
Private Office Scenario.

A USGBC[®] recognized third
party certification program
for LEED v4 EQ Credit
Low-Emitting Materials.



ISO/IEC 17065
Product Certification Body
#0754