

# Independent Textile Testing Service, Inc.

Test Number: 170045

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

Customer: Mannington Mills

January 25, 2017

Subject: Specimens of the submitted sample were prepared and tested in accordance with  
ASTM E 648-15e1 and/or Federal Test Method 372. NFPA 253

### FLOORING RADIANT PANEL TEST

#### Sample Description

Assurance III

#### Test Assembly

Mounted on 6mm FRC Board  
(Using V-82 Adhesive Provided by Client)

<u>Test Results</u>	<u>Specimen No. 1</u>	<u>Specimen No. 2</u>	<u>Specimen No. 3</u>
Critical Radiant Flux	0.90 watts/cm <sup>2</sup>	0.99 watts/cm <sup>2</sup>	0.90 watts/cm <sup>2</sup>
Total Burn Length	20.0 cm	15.0 cm	20.0 cm
Flame Front Out	10.0 minutes	10.0 minutes	10.0 minutes

#### Average Critical Radiant Flux

0.93 watts/cm<sup>2</sup>

Estimated Standard Deviation

0.05 watts/cm<sup>2</sup>

5.6% coefficient of variation

  
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President L. Kent Suddeth

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Test Report

**Customer:** Mannington Mills

January 25, 2017

**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/cm <sup>2</sup>	G Factor	132
Thermal Exposure:	Non-flaming		
Furnace Voltage:	106		
Burner Fuel:			

### Sample Description

Assurance III

### Test Results

	#1	#2	#3	Average
Chamber Temperature, °F (start)	95	95	95	
Chamber Pressure	Maintained positive, under 3" H <sub>2</sub> O			
Minimum Transmittance (TM), %	84%	61%	58%	
at, minutes	17.80	17.53	16.03	17.12
Maximum Specific Optical Density (DM)	406	424	427	419
Clear Beam, (DC)	2	3	2	2
<b>DM, CORRECTED (DMC)</b>	404	421	425	417
Specific Optical Density at 1.5 minutes	12	12	11	12
Specific Optical Density at 4.0 minutes	79	102	102	94
Time to 90% DM, minutes	10.83	10.27	10.33	10.48
Time to DS = 16, minutes	1.73	1.70	1.80	1.74

  
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## SMOKE DENSITY TEST (NIST)

### Operating Conditions

Irradiance:	2.5 watts/cm <sup>2</sup>	G Factor	132
Thermal Exposure:	Flaming		
Furnace Voltage:	103		
Burner Fuel:	Propane		

### Sample Description

Assurance III

### Test Results

	#1	#2	#3	Average
Chamber Temperature, °F (start)	95	95	95	
Chamber Pressure	Maintained positive, under 3" H <sub>2</sub> O			
Minimum Transmittance (TM), %	74%	11%	46%	
at, minutes	5.68	6.42	5.13	5.74
Maximum Specific Optical Density (DM)	281	259	309	283
Clear Beam, (DC)	43	24	34	34
<b>DM, CORRECTED (DMC)</b>	238	235	275	249
Specific Optical Density at 1.5 minutes	160	113	148	140
Specific Optical Density at 4.0 minutes	269	234	297	267
Time to 90% DM, minutes	2.37	4.13	2.95	3.15
Time to DS = 16, minutes	0.38	0.43	0.40	0.40

  
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