

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: Kvadrat Rugs

June 23, 2021

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

Aram 2

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	0.82 watts/cm ²	0.77 watts/cm ²	0.87 watts/cm ²
Total Burn Length	23.0 cm	25.0 cm	20.0 cm
Flame Front Out	10.0 minutes	10.0 minutes	10.0 minutes

<u>Average Critical Radiant Flux</u>	0.82 watts/cm²
Estimated Standard Deviation	0.05 watts/cm²
	6.1% coefficient of variation



President L. Kent Suddeth

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: Kvadrat Rugs

June 23, 2021

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 ²	G Factor	132
Thermal Exposure:	Flaming		
Furnace Voltage:	1240		
Burner Fuel:	Propane		

Sample Description

Aram 2

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), %	84%	23%	51%	
at, minutes	9.75	8.73	8.98	9.16
Maximum Specific Optical Density (DM)	406	480	435	440
Clear Beam, (DC)	18	14	10	14
DM, CORRECTED (DMC)	388	466	425	426
Specific Optical Density at 1.5 minutes	95	14	43	51
Specific Optical Density at 4.0 minutes	265	259	164	229
Time to 90% DM, minutes	7.60	7.12	7.28	7.33
Time to DS = 16, minutes	0.85	1.53	1.18	1.19



President L. Kent Suddeth

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: Kvadrat Rugs

June 23, 2021

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 ²	G Factor	132
Thermal Exposure:	Non-flaming		
Furnace Voltage:	1240		
Burner Fuel:	--		

Sample Description

Aram 2

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), %	48%	51%	51%	
at, minutes	17.27	16.93	16.93	17.04
Maximum Specific Optical Density (DM)	438	4.35	435	436
Clear Beam, (DC)	26	19	17	21
DM, CORRECTED (DMC)	412	416	418	415
Specific Optical Density at 1.5 minutes	27	33	31	30
Specific Optical Density at 4.0 minutes	109	113	113	112
Time to 90% DM, minutes	12.30	11.70	12.03	12.01
Time to DS = 16, minutes	1.20	1.03	1.00	1.08



President L. Kent Suddeth