

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 Inc.

December 17, 2020

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

Kelim cd. 7424
Kvadrat Rugs by Kinnasand

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	0.89 watts/cm ²	0.87 watts/cm ²	0.90 watts/cm ²
Total Burn Length	19.0 cm	20.0 cm	18.0 cm
Flame Front Out	10.0 minutes	10.0 minutes	10.0 minutes

<u>Average Critical Radiant Flux</u>	0.89 watts/cm²
Estimated Standard Deviation	0.02 watts/cm²
	1.7% coefficient of variation



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Customer: Kvadrat Inc.

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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:	1260		
Burner Fuel:	Propane		

Sample Description

Kelim cd. 7424
 Kvadrat Rugs by Kinnasand

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), %	86%	99%	42%	
at, minutes	9.75	9.47	10.55	9.92
Maximum Specific Optical Density (DM)	141	133	182	152
Clear Beam, (DC)	1	1	2	1
DM, CORRECTED (DMC)	140	132	180	151
Specific Optical Density at 1.5 minutes	14	11	16	14
Specific Optical Density at 4.0 minutes	55	65	57	59
Time to 90% DM, minutes	7.65	7.17	8.30	7.71
Time to DS = 16, minutes	1.65	1.77	1.52	1.64



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SMOKE DENSITY TEST (NIST)

Operating Conditions

Irradiance:	2.5 watts/cm ²	G Factor	132
Thermal Exposure:	Non-flaming		
Furnace Voltage:	107		
Burner Fuel:	--		

Sample Description

Kelim cd. 7424
 Kvadrat Rugs by Kinnasand

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), %	21%	79%	34%	
at, minutes	14.97	13.95	10.65	13.19
Maximum Specific Optical Density (DM)	221	278	326	275
Clear Beam, (DC)	1	1	1	1
DM, CORRECTED (DMC)	220	277	325	274
Specific Optical Density at 1.5 minutes	6	5	6	6
Specific Optical Density at 4.0 minutes	113	134	180	142
Time to 90% DM, minutes	9.80	9.50	6.95	8.75
Time to DS = 16, minutes	1.83	1.90	1.82	1.85



President L. Kent Suddeth

Independent Textile Testing Service, Inc.

Test No: 206290

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Test Report

Customer: Kvadrat Inc.

December 17, 2020

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

Sample Identification: Kelim cd. 7424
Kvadrat Rugs by Kinnasand

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 vacuum 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	3.5

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 Report

Customer: Kvadrat Inc

December 17, 2020

Subject: "Consumer Product Safety Commission (CPSC) FF 2-70"
 "16 CFR 1631"
 "ASTM D 2859-16"
 "Consumer Product Safety Improvement Act"

Scope: This test method covers the determination of the flammability of finished textile floor covering materials when exposed to an ignition source under controlled laboratory conditions. It is applicable to all types of textile floor coverings regardless of the method of fabrication or whether they are made from natural or man-made fibers.

FLAMMABILITY TEST REPORT

STYLE	COLOR	ROLL	TESTED	PASSED
Kelim cd. 7424 Kvadrat Rugs by Kinnasand	--	--	8	8



L. Kent Suddeth

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This test report does not imply product certification, approval, or endorsement by NVLAP, NIST, or any agency of the Federal Government.

