Independent Textile Testing 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 Number:217417

Test Report

Customer: Kvadrat Rugs

April 1, 2021

Subject: **"Consumer Product Safety Commission (CPSC) FF 1-70"**
"16 CFR 1630"
"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.

Style: Lavo
Content: 100 % pure new wool

FLAMMABILITY TEST REPORT

Specimen	Distance to the Ring (inches)	Pass/Fail
1	3.5	Pass
2	3.5	Pass
3	3.5	Pass
4	3.5	Pass
5	3.5	Pass
6	3.5	Pass
7	3.5	Pass
8	3.5	Pass

CPSIA Consumer Product Safety Commission Accredited Laboratory: ID 1288

ASTM MEMBER

NVLAP® NVLAP CODE 100166-0 (Testing)
This test report does not imply product certification, approval, or endorsement by NVLAP, NIST, or any agency of the Federal Government.

APPROVED
MEETS OR EXCEEDS
FEDERAL FLAMMABILITY
STANDARD CPSC FF 1-70

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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

Style: Lavo
Content: 100 % pure new wool

Test Assembly

Mounted on 6mm FRC Board
(Loose Lay)

Test Results	Specimen No. 1	Specimen No. 2	Specimen No. 3
Critical Radiant Flux	0.64 watts/cm^2	0.70 watts/cm^2	0.60 watts/cm^2
Total Burn Length	32 cm	29 cm	34 cm
Flame Front Out	10 minutes	10 minutes	10 minutes

Average Critical Radiant Flux **0.65 watts/cm^2**

Estimated Standard Deviation **0.05 watts/cm^2**

7.8 % coefficient of variation

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Test Number: 217417

Test Report

Customer: Kvadrat Rugs

April 1, 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:	1230		
Burner Fuel:	Propane		

Sample Description

Style: Lavo
Content: 100 % pure new wool

Test Results

	#1	#2	#3	Average
Chamber Temperature, °F (start)	95	95	95	
Chamber Pressure	Maintained positive, under 3" H_2O			
Minimum Transmittance (TM), %	54 %	14 %	36 %	
at, minutes	9.77	10.15	8.73	9.55
Maximum Specific Optical Density (DM)	299	245	323	289
Clear Beam, (DC)	12	7	7	9
DM, CORRECTED (DMC)	287	238	316	280
Specific Optical Density at 1.5 minutes	41	18	19	26
Specific Optical Density at 4.0 minutes	67	47	71	62
Time to 90% DM, minutes	7.52	8.15	6.78	7.48
Time to DS = 16, minutes	1.05	1.45	1.43	1.31

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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:	108		
Burner Fuel:	---		

Sample Description

Style: Lavo
Content: 100 % pure new wool

Test Results

	#1	#2	#3	Average
Chamber Temperature, °F (start)	95	95	95	
Chamber Pressure	Maintained positive, under 3" H_2O			
Minimum Transmittance (TM), %	93 %	97 %	15 %	
at, minutes	20.00	20.00	20.00	20.00
Maximum Specific Optical Density (DM)	268	266	373	302
Clear Beam, (DC)	3	1	5	3
DM, CORRECTED (DMC)	265	265	368	299
Specific Optical Density at 1.5 minutes	59	50	57	55
Specific Optical Density at 4.0 minutes	113	95	113	107
Time to 90% DM, minutes	13.03	13.57	14.23	13.61
Time to DS = 16, minutes	0.55	0.57	0.53	0.55

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