

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:	1238		
Burner Fuel:	Propane		

Sample Description

Braid

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), %	38%	21%	36%	
at, minutes	4.83	6.08	4.80	5.24
Maximum Specific Optical Density (DM)	187	221	191	200
Clear Beam, (DC)	20	27	20	22
DM, CORRECTED (DMC)	167	194	171	177
Specific Optical Density at 1.5 minutes	92	109	92	98
Specific Optical Density at 4.0 minutes	185	214	185	195
Time to 90% DM, minutes	2.93	2.95	3.32	3.07
Time to DS = 16, minutes	0.57	0.48	0.57	0.54



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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:	1238		
Burner Fuel:	--		

Sample Description

Braid

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), %	66%	65%	60%	
at, minutes	20.00	20.00	20.00	20.00
Maximum Specific Optical Density (DM)	24	25	29	26
Clear Beam, (DC)	2	2	2	2
DM, CORRECTED (DMC)	22	23	27	24
Specific Optical Density at 1.5 minutes	5	4	4	4
Specific Optical Density at 4.0 minutes	13	10	11	11
Time to 90% DM, minutes	14.13	14.33	15.20	14.56
Time to DS = 16, minutes	6.87	7.63	7.10	7.20



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