

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:	1235		
Burner Fuel:	Propane		

Sample Description

Dashes

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), %	11%	25%	33%	
at, minutes	10.37	9.47	11.37	10.40
Maximum Specific Optical Density (DM)	259	343	196	266
Clear Beam, (DC)	5	4	2	4
DM, CORRECTED (DMC)	254	339	194	262
Specific Optical Density at 1.5 minutes	13	42	25	27
Specific Optical Density at 4.0 minutes	138	224	141	168
Time to 90% DM, minutes	8.52	7.30	9.02	8.28
Time to DS = 16, minutes	1.63	1.23	1.40	1.42

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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:	1240		
Burner Fuel:	--		

Sample Description

Dashes

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), %	52%	43%	46%	
at, minutes	13.57	15.53	14.87	14.66
Maximum Specific Optical Density (DM)	301	312	309	307
Clear Beam, (DC)	3	4	2	3
DM, CORRECTED (DMC)	298	308	307	304
Specific Optical Density at 1.5 minutes	29	33	32	31
Specific Optical Density at 4.0 minutes	122	169	148	146
Time to 90% DM, minutes	7.90	8.93	7.02	7.95
Time to DS = 16, minutes	1.07	1.10	1.07	1.08



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