

Professional Testing Laboratory Inc.

TEST REPORT

DATE: 07-31-2023 Page 1 of 1 TEST NUMBER: 0299161

CLIENT Egetaepper a/s

TEST METHOD CONDUCTED

ASTM E662 Smoke Density (Non-Flaming) Standard Test Method for Specific Optical Density of Smoke Generated by Solid Materials



	DESCRIPTION OF TEST SAMPLE
IDENTIFICATION	Highline Wool 11,00 ab
CONSTRUCTION	Cut Pile

GENERAL PRINCIPLE

This procedure is designed to measure the specific optical density of smoke generated by the test specimen within a closed chamber. Each specimen is exposed to an electrically heated radiant-energy source positioned to provide a constant irradiance level of 2.5 watts/square cm on the specimen surface. Measurements are recorded through a photometric system employing a vertical beam of light and a photo detector positioned to detect the attenuation of light transmittance caused by smoke accumulation within the chamber. The light transmittance measurements are used to calculate specific optical density, a quantitative value which can be factored to estimate the smoke potential of materials. Two burning conditions can be simulated by the test apparatus. The radiant heating in the absence of ignition is referred to as the Non-Flaming Mode. A flaming combustion in the presence of supporting radiation constitutes the Flaming Mode.

	CONDI	TIONS	
PREDRYING OF TEST SAMPLE CONDITIONING OF TEST SAMPLE TESTING CONDITION	24 Hours at 140° F 24 Hours at 70° F and As Received	d 50% Relative Humidity	
FURNACE VOLTAGE CHAMBER TEMPERATURE TEST MODE	118 V 95° F Non-Flaming	IRRADIANCE CHAMBER PRESSURE	2,5 watts/sq cm 3" H ₂ O

AVERAGE MAXIMUM DENSITY CORRECTED (Dmc)		NON-FLAMING	149
AVERAGE SPECIFIC OPTICAL DENSITY AT 4.0 MINUTES			54
	Specimen 1	Specimen 2	Specimen 3
Maximum Density (Dm)	133.0	163.0	159.0
Time to Dm (minutes)	20.0	20.0	19.0
Clear Beam (Dc)	4.0	3.0	2.0
Corr. Max Density (Dmc)	129.0	160.0	157.0
Density at 1.5 minutes	28.0	29.0	31.0
Density at 4.0 minutes	48.0	56.0	59.0
Time to 90% Dm (minutes)	14.5	15.0	14.0
Specimen Weight (grams)	17.2	17.5	16.8

APPROVED BY:

QAIVN

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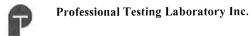


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DATE: 07-31-2023 Page 1 of 1 TEST NUMBER: 0299161

CLIENT Egetaepper a/s

TEST METHOD CONDUCTED

ASTM E662 Smoke Density (Flaming) Standard Test Method for Specific Optical Density of Smoke Generated by Solid Materials



	DESCRIPTION OF TEST SAMPLE
IDENTIFICATION	Highline Wool 1100 ab
CONSTRUCTION	Cut Pile

GENERAL PRINCIPLE

This procedure is designed to measure the specific optical density of smoke generated by the test specimen within a closed chamber. Each specimen is exposed to an electrically heated radiant-energy source positioned to provide a constant irradiance level of 2.5 watts/square cm on the specimen surface. Measurements are recorded through a photometric system employing a vertical beam of light and a photo detector positioned to detect the attenuation of light transmittance caused by smoke accumulation within the chamber. The light transmittance measurements are used to calculate specific optical density, a quantitative value which can be factored to estimate the smoke potential of materials. Two burning conditions can be simulated by the test apparatus. The radiant heating in the absence of ignition is referred to as the Non-Flaming Mode. A flaming combustion in the presence of supporting radiation constitutes the Flaming Mode.

CONDITIONS PREDRYING OF TEST SAMPLE 24 Hours at 140° F CONDITIONING OF TEST SAMPLE 24 Hours at 70° F and 50% Relative Humidity **TESTING CONDITION** As Received 2.5 watts/sq cm IRRADIANCE **FURNACE VOLTAGE** 118 V CHAMBER TEMPERATURE 9.5° F **CHAMBER PRESSURE** 3" H₂O TEST MODE Flaming

AVERAGE MAXIMUM DENSITY CORRECT	ED (Dmc)	FLAMING	142
AVERAGE SPECIFIC OPTICAL DENSITY AT 4.0 MINUTES			43
	Specimen 1	Specimen 2	Specimen 3
Maximum Density (Dm)	158.0	139.0	148.0
Time to Dm (minutes)	9.5	10.0	10.0
Clear Beam (Dc)	6.0	5.0	7.0
Corr. Max Density (Dmc)	152.0	134.0	141.0
Density at 1.5 minutes	12.0	9.0	13.0
Density at 4.0 minutes	42.0	37.0	49.0
Time to 90% Dm (minutes)	7.5	7.0	8.0
Specimen Weight (grams)	16.2	17.2	16.7

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