

Professional Testing Laboratory Inc.

TEST REPORT

DATE: 04-14-2023 Page 1 of 1 TEST NUMBER: 0296342

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	Colortec Wool 1800 LT	
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			
FURNACE VOLTAGE	118 V	IRRADIANCE	2.5 watts/sq cm	
CHAMBER TEMPERATURE	95° F	CHAMBER PRESSURE	3" H ₂ O	
TEST MODE	Non-Flaming			

AVERAGE MAXIMUM DENSITY CORRECTED	(Dmc)	NON-FLAMING	329
AVERAGE SPECIFIC OPTICAL DENSITY AT 4.0 MINUTES			177
	Specimen 1	Specimen 2	Specimen 3
Maximum Density (Dm)	330.0	313.0	349.0
Time to Dm (minutes)	14.0	14.5	15.0
Clear Beam (Dc)	1,0	2.0	1.0
Corr. Max Density (Dmc)	329.0	311.0	348.0
Density at 1.5 minutes	51.0	46.0	70.0
Density at 4.0 minutes	174.0	169.0	187.0
Time to 90% Dm (minutes)	9.0	9.5	9.0
Specimen Weight (grams)	14.8	15.4	14.7

APPROVED BY:

QAJVN

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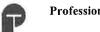
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CONDITIONS PREDRYING OF TEST SAMPLE 24 Hours at 140° F **CONDITIONING OF TEST SAMPLE** 24 Hours at 70° F and 50% Relative Humidity **TESTING CONDITION** As Received 2.5 watts/sa cm IRRADIANCE **FURNACE VOLTAGE** 118 V CHAMBER PRESSURE 3" H₂O 9.5° F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

AVERAGE MAXIMUM DENSITY CORRECTE	D (Dmc)	FLAMING	337
AVERAGE SPECIFIC OPTICAL DENSITY AT	113		
	Specimen 1	Specimen 2	Specimen 3
Maximum Densify (Dm)	336.0	359.0	347.0
Time to Dm (minutes)	10.5	11.0	10.5
Clear Beam (Dc)	9.0	10.0	12.0
Corr. Max Densify (Dmc)	327.0	349.0	335.0
Density at 1.5 minutes	13.0	16.0	12.0
Density at 4.0 minutes	106.0	124.0	110.0
Time to 90% Dm (minutes)	8.0	8.5	7.5
Specimen Weight (grams)	15.2	14.8	14.7

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