

TEST REPORT

DATE: 07-31-2023 Page

Page 1 of 1 TEST NUMBER: 0299162

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 1400 wt	
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 CONDITIONING OF TEST SAMPLE	24 Hours at 140° F 24 Hours at 70° F an	nd 50% Relative Humidity		
TESTING CONDITION	As Received	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 (Dmd		NON-FLAMING	150
AVERAGE SPECIFIC OPTICAL DENSITY AT 4.0 MINUTES			51
	Specimen 1	Specimen 2	Specimen 3
Maximum Density (Dm)	162.0	156.0	148.0
Time to Dm (minutes)	19.5	20.0	19.0
Clear Beam (Dc)	6.0	5.0	4.0
Corr. Max Density (Dmc)	156.0	151.0	144.0
Density at 1.5 minutes	23.0	20.0	18.0
Density at 4.0 minutes	57.0	43.0	53.0
Time to 90% Dm (minutes)	14.5	15.0	15.5
Specimen Weight (grams)	16.7	16.3	16.7

APPROVED BY:

NVIAP MAPILA COOL INC. W.

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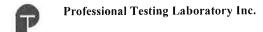
Dalton, GA 30721

Dary asbury

706-226-3283

Fax: 706-226-6787

protest@optilink.us



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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 IRRADIANCE 2.5 watts/sq cm **FURNACE VOLTAGE** 118 V CHAMBER PRESSURE 3" H₂O **CHAMBER TEMPERATURE** 95° F TEST MODE Flaming

AVERAGE MAXIMUM DENSITY CORRECTED (Dmc)		FLAMING	153
AVERAGE SPECIFIC OPTICAL DENSITY AT	34		
	Specimen 1	Specimen 2	Specimen 3
Maximum Density (Dm)	157.0	168.0	149.0
Time to Dm (minutes)	11.0	10.5	11.0
Clear Beam (Dc)	6.0	5.0	4.0
Corr. Max Density (Dmc)	151.0	163.0	145.0
Density at 1.5 minutes	3.0	2,0	5.0
Density at 4.0 minutes	34.0	39.0	29.0
Time to 90% Dm (minutes)	8.5	9.0	9.0
Specimen Weight (grams)	16.5	16.7	16.5

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