

## **TEST REPORT**

DATE: 10-06-2014

**TEST NUMBER: 0211703** 

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 also referenced

as NFPA 258



DESCRIPTION OF TEST SAMPLE			
IDENTIFICATION	Highline Loop wt		
CONSTRUCTION	Loop Pile		
BACKING	Woven Synthetic		

## **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.

	CON	DITIONS	
PREDRYING OF TEST SAMPLE CONDITIONING OF TEST SAMPLE TESTING CONDITION	24 Hours at 140° F 24 Hours at 70° F and 50% Relative Humidity As Received		
FURNACE VOLTAGE CHAMBER TEMPERATURE TEST MODE	118 V 95° F Flaming	IRRADIANCE CHAMBER PRESSURE	2.5 watts/sq cm 3" H <sub>2</sub> O

AVERAGE MAXIMUM DENSITY CORRECTED (Dmc) FLAMING		197	
AVERAGE SPECIFIC OPTICAL DENSITY AT 4.0 MINUTES			201
	Specimen 1	Specimen 2	Specimen 3
Maximum Density (Dm)	220.0	227.0	201.0
Time to Dm (minutes)	3.0	3.0	3.0
Clear Beam (Dc)	18.0	22.0	16.0
Corr. Max Density (Dmc)	202.0	205.0	185.0
Density at 1.5 minutes	29.0	24.0	19.0
Density at 4.0 minutes	205.0	210.0	187.0
Time to 90% Dm (minutes)	2.5	2.5	2.5
Specimen Weight (grams)	12.4	12.4	12.3

<sup>\*</sup> This sample PASSES the requirements of 450 or less.

APPROVED BY:

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CONSTRUCTION	Loop Pile
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## **GENERAL PRINCIPLE**

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	CONDI	TIONS	
PREDRYING OF TEST SAMPLE CONDITIONING OF TEST SAMPLE TESTING CONDITION	<b>DNING OF TEST SAMPLE</b> 24 Hours at 70° F and 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 <sub>2</sub> O

AVERAGE MAXIMUM DENSITY CORRECTED (Dmc) NON-FLAMING		NON-FLAMING	180	
AVERAGE SPECIFIC OPTICAL DENSITY AT 4.0 MINUTES			21	
	Specimen 1	Specimen 2	Specimen 3	
Maximum Density (Dm)	199.0	159.0	184.0	
Time to Dm (minutes)	19.0	18.5	19.0	
Clear Beam (Dc)	1.0	0.0	2.0	
Corr. Max Density (Dmc)	198.0	159.0	182.0	
Density at 1.5 minutes	0.0	0.0	3.0	
Density at 4.0 minutes	25.0	18.0	20.0	
Time to 90% Dm (minutes)	17.5	17.0	17.5	
Specimen Weight (grams)	12.3	12.0	12.1	

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