

## **TEST REPORT**

DATE: 08-29-2017	Page 1 of 1	TEST NUMBER: 024	0041
CLIENT	Egetaepper a/s		0011

TEST METHOD CONDUCTED	ASTM E662 Smoke Density (Non-Flaming) Standard Test Method for Specific Optical Density of Smoke Generated by Solid Materials also referenced as NFPA 258
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	DESCRIPTION OF TEST SAMPLE
IDENTIFICATION	Highline 1100 ECT350
CONSTRUCTION	Cut Pile
BACKING	Attached Cushion
REFERENCE	Modular Collection
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## **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 an As Received	d 50% Relative Humidity	
FURNACE VOLTAGE CHAMBER TEMPERATURE TEST MODE	118 V 95° F Non-Flamina	IRRADIANCE CHAMBER PRESSURE	2.5 watts/sq cm 3" H <sub>2</sub> O

AVERAGE MAXIMUM DENSITY CORRECT	D (Dmc)	NON-FLAMING	134
AVERAGE SPECIFIC OPTICAL DENSITY AT	4.0 MINUTES	The second second second second	19
	Specimen 1	Specimen 2	Specimen 3
Maximum Density (Dm)	133.0	158.0	139.0
Time to Dm (minutes)	20.0	20.0	20.0
Clear Beam (Dc)	8.0	14.0	7.0
Corr. Max Density (Dmc)	125.0	144.0	132.0
Density at 1.5 minutes	3.0	5.0	4.0
Density at 4.0 minutes	17.0	21.0	19.0
Time to 90% Dm (minutes)	16.5	17.5	16.5
Specimen Weight (grams)	19.5	19.7	19.5

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

APPROVED BY:

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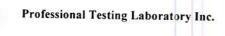
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## **TEST REPORT**

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CLIENT	Egetaepper a/s	7201 WOMBER. 0240041

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
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IDENTIFICATION	Highline 1100 ECT350
CONSTRUCTION	Cut Pile
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**GENERAL PRINCIPLE** 

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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 CORRECT	D (DMc)	FLAMING	249
AVERAGE SPECIFIC OPTICAL DENSITY AT 4.0 MINUTES			283
	Specimen 1	Specimen 2	Specimen 3
Maximum Density (Dm)	297.0	314.0	288.0
Time to Dm (minutes)	3.5	3.5	3.0
Clear Beam (Dc)	51.0	54.0	47.0
Corr. Max Density (Dmc)	246.0	260.0	241.0
Density at 1.5 minutes	9.0	15.0	5.0
Density at 4.0 minutes	282.0	297.0	269.0
Time to 90% Dm (minutes)	2.0	2.5	
Specimen Weight (grams)	19.6		2.0
, (3, a, 10)	17.0	19.4	19.4

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

APPROVED BY:

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