

## **TEST REPORT**

DATE: 10-07-2014 TEST NUMBER: 0211714

CLIENT Egetaepper a/s

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	Una Micro Stripe Ecotrust 350	
COLOR	Deep Black	
CONSTRUCTION	Loop Pile	
BACKING	Attached Cushion	

## **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 Flamina Mode.

CONDITIONS				
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		328	
AVERAGE SPECIFIC OPTICAL DENSITY AT 4.0 MINUTES			336
	Specimen 1	Specimen 2	Specimen 3
Maximum Density (Dm)	347.0	318.0	374.0
Time to Dm (minutes)	3.5	3.5	4.0
Clear Beam (Dc)	17.0	18.0	20.0
Corr. Max Density (Dmc)	330.0	300.0	354.0
Density at 1.5 minutes	43.0	31.0	47.0
Density at 4.0 minutes	327.0	307.0	374.0
Time to 90% Dm (minutes)	3.0	3.0	3.5
Specimen Weight (grams)	12.8	12.5	12.6

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

APPROVED BY:

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AVERAGE MAXIMUM DENSITY CORRECTED (Dmc)  NON-FLAMING		111 22	
AVERAGE SPECIFIC OPTICAL DENSITY AT 4.0 MINUTES			
	Specimen 1	Specimen 2	Specimen 3
Maximum Density (Dm)	98.0	102.0	136.0
Time to Dm (minutes)	17.0	17.0	17.5
Clear Beam (Dc)	0.0	0.0	2.0
Corr. Max Density (Dmc)	98.0	102.0	134.0
Density at 1.5 minutes	2.0	1.0	1.0
Density at 4.0 minutes	21.0	19.0	25.0
Time to 90% Dm (minutes)	15.0	15.5	16.5
Specimen Weight (grams)	12.9	12.7	12.9

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

APPROVED BY:

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