

TEST REPORT

DATE: 11-17-2017	Page 1 of 1	TEST NUMBER: 0242258
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
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DESCRIPTION OF TEST SAMPLE	
Highline 1100 AB	
Cut Pile	
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 Flaming Mode.

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

AVERAGE MAXIMUM DENSITY CORRECTED		FLAMING	138
AVERAGE SPECIFIC OPTICAL DENSITY AT 4.0 MINUTES			128
	Specimen 1	Specimen 2	Specimen 3
Maximum Density (Dm)	169.0	146.0	175.0
Time to Dm (minutes)	7.0	5.5	7.5
Clear Beam (Dc)	26.0	19.0	31.0
Corr. Max Density (Dmc)	143.0	127.0	144.0
Density at 1.5 minutes	2.0	1.0	5.0
Density at 4.0 minutes	128.0	116.0	139.0
Time to 90% Dm (minutes)	4.5	3.5	4.5
Specimen Weight (grams)	16.8	16.4	16.8

^{*} This sample PASSES the requirements of 450 or less.

APPROVED BY:

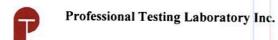
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Fax: 706-226-6787



TEST REPORT

TEST NUMBER	0242258

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 AB
CONSTRUCTION	Cut 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 Flaming Mode.

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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-Flaming	IRRADIANCE CHAMBER PRESSURE	2.5 watts/sq cm 3" H ₂ O

AVERAGE MAXIMUM DENSITY CORRECTE		NON-FLAMING	159
AVERAGE SPECIFIC OPTICAL DENSITY AT 4.0 MINUTES			22
	Specimen 1	Specimen 2	Specimen 3
Maximum Density (Dm)	178.0	189.0	169.0
Time to Dm (minutes)	16.5	18.0	16.0
Clear Beam (Dc)	20.0	21.0	17.0
Corr. Max Density (Dmc)	158.0	168.0	152.0
Density at 1.5 minutes	3.0	9.0	1.0
Density at 4.0 minutes	20.0	28.0	17.0
Time to 90% Dm (minutes)	13.5	13.5	14.0
Specimen Weight (grams)	17.2	16.6	16.5

^{*} This sample PASSES the requirements of 450 or less.

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