



Professional  
Testing  
Laboratory  
Inc.

## TEST REPORT

<b>TEST NUMBER</b>	0083195
<b>DATE</b>	03/25/04
<b>PAGE</b>	1 of 2

<b>CLIENT</b>	PATCRAFT
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<b>TEST METHOD CONDUCTED</b>	ASTM E662-01 Specific Optical Density of Smoke Generated by Solid Materials, also referenced as NFPA 258
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DESCRIPTION OF TEST SAMPLE	
<b>IDENTIFICATION</b>	I0204 Color Choice
<b>COLOR</b>	----
<b>ROLL</b>	QM15792
<b>CONSTRUCTION</b>	Loop Pile
<b>FIBER</b>	----
<b>BACKING</b>	EcoWorx
<b>REFERENCE</b>	TEST NO: 031604-8

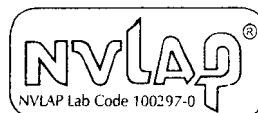
### TEST RESULTS

<b>FLAMING</b>	129
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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.

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CONDITIONS	
<b>PREDRYING OF TEST SAMPLE</b> <b>CONDITIONING OF TEST SAMPLE</b>	24 Hours at 140 degrees F 24 Hours at 70 degrees F and 50% relative humidity

<b>FURNACE VOLTAGE</b>	116 V	<b>IRRADIANCE</b>	2.5 watts/sq cm
<b>CHAMBER TEMPERATURE</b>	95 degrees F	<b>CHAMBER PRESSURE</b>	3" H2O
<b>TEST MODE</b>	Flaming		

<b>AVERAGE MAXIMUM DENSITY CORRECTED (Dmc)</b>	129
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	1	2	3
Maximum Density (Dm)	139	161	175
Time to Dm (minutes)	5.5	4.5	4.5
Clear Beam (Dc)	32	26	29
Corr. Max Density (Dmc)	107	135	146
Density at 1.5 minutes	3	5	5
Density at 4.0 minutes	125	158	157
Time to 90% Dm (minutes)	4	3	4
Specimen Weight (grams)	21.5	20.0	21.3

<b>AVERAGE SPECIFIC OPTICAL DENSITY AT 4.0 MINUTES:</b> 147
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APPROVED BY: \_\_\_\_\_

*Gary Ashbury*

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