Professional Testing Laboratory Inc.

TEST REPORT

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

CLIENT	PATCRAFT

TEST METHOD CONDUCTED	ASTM E662-01 Specific Optical Density of Smoke Generated by Solid Materials, also referenced as NFPA 258

DESCRIPTION OF TEST SAMPLE	
IDENTIFICATION	I0204 Color Choice
COLOR	-----
ROLL	QM15792
CONSTRUCTION	Loop Pile
FIBER	-----
BACKING	EcoWorx
REFERENCE	TEST NO: 031604-8

TEST RESULTS

FLAMING	129

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	
PREDRYING OF TEST SAMPLE **CONDITIONING OF TEST SAMPLE**	24 Hours at 140 degrees F 24 Hours at 70 degrees F and 50% relative humidity

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

AVERAGE MAXIMUM DENSITY CORRECTED (Dmc)	129

	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

AVERAGE SPECIFIC OPTICAL DENSITY AT 4.0 MINUTES: 147

APPROVED BY: Gary Asbury

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