Professional Testing Laboratory, Inc.

The test report attached verifies the fire performance for Armstrong Sheet Flooring. The product tested is representative of, but may not be identical to the product you are purchasing. Changes in product formulation that occur for a variety of reasons may cause fluctuations in results. The above referenced data is representative of the current formulation of these products. Specifications and interpretation of fire test methods are subject to ongoing development. To assure that the information continues to be current, it is suggested that you request product certification for a specific project. The certification will reference the current applicable independent laboratory test reports.

TEST REPORT

DATE: 08/03/2007 **TEST NUMBER**: 109037

CLIENT	Burke Industries/Mercer Products

TEST METHOD CONDUCTED	ASTM E662-03 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	174/50V1
COLOR	-----
ROLL	-----
CONSTRUCTION	Vinyl
FIBER	-----
BACKING	-----
REFERENCE	

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	24 Hours at 140º F		
CONDITIONING OF TEST SAMPLE	24 Hours at 70º F and 50% Relative Humidity		
FURNACE VOLTAGE	121 V	**IRRADIANCE**	2.5 watts/sq cm
CHAMBER TEMPERATURE	95º F	**CHAMBER PRESSURE**	3" H_2O
TEST MODE	Flaming		

AVERAGE MAXIMUM DENSITY CORRECTED (Dmc)		**FLAMING**	170
AVERAGE SPECIFIC OPTICAL DENSITY AT 4.0 MINUTES			143
	Specimen 1	**Specimen 2**	**Specimen 3**
Maximum Density (Dm)	185.0	203.0	166.0
Time to Dm (minutes)	7.4	9.6	8.8
Clear Beam (Dc)	14.0	13.0	16.0
Corr. Max Density (Dmc)	171.0	190.0	150.0
Density at 1.5 minutes	64.0	64.0	79.0
Density at 4.0 minutes	158.0	132.0	140.0
Time to 90% Dm (minutes)	4.6	6.0	5.5
Specimen Weight (grams)	28.3	28.3	28.5

**** This sample PASSES the requirements of 450 or less as listed in NFPA Life Safety Code 101.***

APPROVED BY: Gary Asbury

NVLAP®

This facility is accredited by the National Voluntary Laboratory Accreditation Program for the specific scope of accreditation under Lab Code 100297. This accreditation does not constitute an endorsement, certification, or approval by NIST or any agency of the United States Government for the product tested. This report is provided for the exclusive use of the client to whom it is addressed. It may be used in its entirety to gain product acceptance from duly constituted authorities. This report applies only to those samples tested and is not necessarily indicative of apparently identical of similar products. This report, or the name of Professional Testing Laboratory Inc. shall not be used under any circumstance in advertising to the general public.

714 Glenwood Place Dalton, GA 30721 Phone: 706-226-3283 Fax: 706-226-6787 email: protest@optilink.us

Professional Testing Laboratory, Inc.

TEST REPORT

DATE: 08/03/2007 **TEST NUMBER**: 109037

CLIENT	Burke Industries/Mercer Products

TEST METHOD CONDUCTED	ASTM E662-03 Smoke Density (Non-Flaming) Standard Test Method for Specific Optical Density of Smoke Generated by Solid Materials also referenced as NFPA 258

	DESCRIPTION OF TEST SAMPLE
IDENTIFICATION	174/50V1
COLOR	-----
ROLL	-----
CONSTRUCTION	Vinyl
FIBER	-----
BACKING	-----
REFERENCE	

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	24 Hours at 140º F		
CONDITIONING OF TEST SAMPLE	24 Hours at 70º F and 50% Relative Humidity		
FURNACE VOLTAGE	121 V	**IRRADIANCE**	2.5 watts/sq cm
CHAMBER TEMPERATURE	95º F	**CHAMBER PRESSURE**	3" H_2O
TEST MODE	Non-Flaming		

AVERAGE MAXIMUM DENSITY CORRECTED (Dmc)		**NON-FLAMING**	325
AVERAGE SPECIFIC OPTICAL DENSITY AT 4.0 MINUTES			97
	Specimen 1	**Specimen 2**	**Specimen 3**
Maximum Density (Dm)	331.0	373.0	386.0
Time to Dm (minutes)	14.0	15.0	15.0
Clear Beam (Dc)	41.0	40.0	53.0
Corr. Max Density (Dmc)	310.0	333.0	333.0
Density at 1.5 minutes	9.0	6.0	4.0
Density at 4.0 minutes	109.0	98.0	84.0
Time to 90% Dm (minutes)	9.0	10.5	10.5
Specimen Weight (grams)	28.1	28.5	28.2

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