



TEST NUMBER	0000170
DATE	04/01/15
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CLIENT	ROSCO LABORATORIES
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TEST METHOD CONDUCTED	ASTM E662-97 Specific Optical Density of Smoke Generated by Solid Materials, also referenced as NFPA 258
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DESCRIPTION OF TEST SAMPLE	
IDENTIFICATION	Rosco Studio Floor
COLOR	----
ROLL	----
CONSTRUCTION	Vinyl
FIBER	----
BACKING	----
REFERENCE	

TEST RESULTS

FLAMING	335
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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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TEST REPORT

TEST NUMBER	0060275
DATE	04/01/15
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CLIENT	ROSCO LABORATORIES
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IDENTIFICATION	Rosco Studio Floor
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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	111 V	IRRADIANCE	2.5 watts/sq cm
CHAMBER TEMPERATURE	95 degrees F	CHAMBER PRESSURE	3" H2O
TEST MODE	Flaming		

AVERAGE MAXIMUM DENSITY CORRECTED (Dmc)	335
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	1	2	3
Maximum Density (Dm)	383	366	329
Time to Dm (minutes)	5.5	3.0	5.0
Clear Beam (Dc)	16	31	26
Corr. Max Density (Dmc)	367	335	303
Density at 1.5 minutes	201	216	185
Density at 4.0 minutes	366	354	315
Time to 90% Dm (minutes)	3.5	2.0	3.5
Specimen Weight (grams)	18.9	19.0	18.8

AVERAGE SPECIFIC OPTICAL DENSITY AT 4.0 MINUTES:	345
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APPROVED BY: *Gary Ashling*

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