



CLIENT:

Company:	AHF Products
Address:	3840 Hempland Rd
	Mountville, PA 17554

TEST MATERIAL:

Date Material Received:	May 26, 2023
Material Type:	Sheet Vinyl
Material Condition:	Excellent, New
Sample ID:	Armstrong Natralis Vinyl Sheet (Homogeneous)

TESTING METHODS REQUESTED:

Testing Services Inc. was instructed by the client to test for the following...			
Standard:	ASTM E662	Test Method:	Standard Test Method for Specific Optical Density of Smoke Generated by Solid Materials

SAMPLING PLAN:

Sampling Date:	5/26/2023
<ul style="list-style-type: none"> Specimen sampling is performed in the sampling department at TSI. The sampling size of specimens is determined by the test method requirements. In the event a specific sampling size is not called for, a determination will be made based on previous testing experience, and approved for use by an authorized manager. All samples are subjected to the outside environmental conditions of temperature and relative humidity. Sample requiring pre-determined exposure to specified environmental conditions based on a specific test method, take place in the departments in which they are tested 	

DEVIATION FROM TEST METHOD:

State reason for any Deviation from, Additions to, or Exclusions From Test Method.	
None	

TEST SCOPE:

This test method determines the specific optical density of smoke generated by solid materials and assemblies in a vertical position. Measurement is made of the attenuation of a light beam by smoke accumulating within a closed chamber due to non-flaming or flaming combustion.

TEST SUMMARY:

ASTM E662-21a Specimen #	FLAMING MODE				NON-FLAMING MODE			
	1	2	3	AVG	1	2	3	AVG
Specific Optical Density (DS) @ 1.5 Min	76	128	130	111	36	34	31	34
Specific Optical Density (DS) @ 4.0 Min	175	402	293	290	219	270	226	238
Maximum Specific Optical Density (DM)	223	450	328	334	477	435	465	459
Clear Beam (DC)	68	109	90	89	50	108	111	90
Corrected (DMC)	155	341	238	245	427	327	354	369

Requirements: ≤ 450 DMC
 Radiometer Output: 8.1 mv

Burner Fuel: Propane
 Furnace Voltage: 117v

Irradiance: 2.5 W/cm²
 Pressure: Positive Under 3" Water

Uncertainty:

We undertake all assignments for our clients on a best effort basis. Our findings and judgments are based on the information using the latest test methods available. TSI can only ensure the test results for the specific items tested.

Unless otherwise noted in the deviations sections of this report, all tests are performed in compliance with stated test method.

Test Report Approval:

Erle Miles, III, Lab Director, Testing Services (TSI) LLC

TSI Accreditation: Our laboratory is accredited by the US Dept. of Commerce, National Institute of Standards and Technology; ISO/IEC 17025:2005. Our code # is: NVLAP 100108-0. TSI is an Organizational Member of ASTM (American Society for Testing and Materials).



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