SGS

Tested For: Rahul Amin Phone: (610) 252-5800 **Received:** 7/28/2021

Smooth-On, Inc. Fax: Completed: 7/29/2021

5600 Lower Macungie Road **Mobile:** Code: F

Macungie, PA 18062 **PO#:** 1216LRA **Test Report:** 3-44631-0

USA Email: rahul@smooth-on.com

Key Test: ASTM E84 (Int Fin) 805

Client's Identification:

Product Description: Matrix Dryve.

Test Category: Tunnel Test Specifier: BLDG(IBC): LE 2021; V 03/21; ASTM E 84: LE 2021 V 7/21 DK PC: ME BB /dv TEST PERFORMED: ASTM E84 - Standard Test Method for Surface Burning Characteristics of Building Materials

REFERENCE: Comparable to: UL 723 - Standard for Test for Surface Burning Characteristics of Building Materials

APPROXIMATE THICKNESS OF SPECIMEN (as measured by SGS North America): 0.607"

SPECIMEN WEIGHT (to include substrate when applicable):

Prior to Conditioning: 217.6 lbs. Stabilized Weight (taken twice within 24 hours): 217.6 lbs.

PRODUCT CATEGORY:

☐ Textile Type Product

□ Vinyl Type Product

☑ Other than Textile Type or Vinyl Type Product: see client's Identification section above

BRIEF DESCRIPTION OF TEST: This test method is used to determine the relative burning behavior of a material under defined test conditions. The test is performed in a 25 ft. long tunnel/duct-like apparatus and is often referred to as the "tunnel test". The test contemplates a calibration where Red Oak burns to the 24 ft. mark in 5.5 minutes \pm 15 seconds. During the actual test, a 24 ft. long x 23" wide specimen rests horizontally in a ceiling configuration inside the test chamber facing downward and toward two upward oriented burners. A furnace lid that rests in a water trough seals the chamber tight. A cement board placed on the backside of each specimen assembly protects the furnace lid during the test. The near face of the specimen is subjected to a 4.5 ft. flame insult of approximately 88 kW for ten minutes. The time and distance of the spread of flame along the length of the specimen and the smoke developed as read by the photometric system are all recorded. The Flame Spread and Smoke Developed are reported as an Index.

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Tested For:	Rahul Amin Smooth-On, Inc. 5600 Lower Macungie Road Macungie, PA 18062 USA	Phone: Fax: Mobile: PO#: Email:	(610) 252-5800 1216LRA rahul@smooth-on.com	Received: Completed: Code: Test Report:	7/28/2021 7/29/2021 F 3-44631-0
Key Test:	ASTM E84 (Int Fin)				805
SPECIMEN	MOUNTING:				
⊠ Se ado	if-supporting: The test specimen was r ditional support was required.	igid enou	ugh to be self-supporting when pl	aced into test	position. No
□ Ad	hered to IRC: The test specimen was	bonded t	o ¼" Inorganic Reinforced Ceme	nt (IRC) board	ds.
□ Ad	hered to Gypsum: The test specimen	was adhe	ered to 5/8" thick Type X gypsum	board.	
□ Un me	adhered: The specimen was not adhe esh screen and ¹/₄" rods.	red to an	y substrate. Instead, it was laid o	ver a 2" hexa	gonal wire
□ Ot	her:				
SPECIMEN	LENGTH: The 24 ft. length was comp	orised of:			
□ Cont ⊠ Secti	inuous unbroken 24 ft. length lons: ☐ Three 8 ft. sections bu ☐ Three 8 ft. sections po ☐ Other: Six 4 ft. section	sitively jo	pined		
ADHESIVE	(applied by ede Hellitt interior)	⊠ No □ Yes -	(specify):		
OBSERVA	TIONS:				
□ Burr □ Dela □ Sage □ Shrii □ Fallo					
JR		Ver. 2021-03	-09 10:35		Page 2 of 5

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Key Test:	ASTM E84 (Int Fin)				805
REMARKS: ⊠ None					
☐ Other	···				
RESULTS:					
	pread Index: 0 Developed: 0				
ROUNDING	(Per ASTM E84 Reporting	g Requirements):			
	pread Index value has bee Developed value has been		arest multiple of 5.		
Raw Da Less tha 200 or n	an 200 Nearest multi				
CONCLUSI	ON: Based on the reported	Results and cited C	ode Classification System	n, the item tested is a	assigned a:
□ Class □ Class □ Fails	s I or A rating s II or B rating s III or C rating to achieve a minimum clas d on product performance*	sification thereby rer , ASTM E84 is not a	ndering the product unsuit suitable test method for tl	able in terms of code	e requirement
* Severe me spread is ur	elt, drip, delamination or oth nobtainable (See "Remarks	ner behavior that des ")	stroys the continuity of the	flame front such tha	it a valid flame

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COPY

7/28/2021



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Rahul Amin

Phone: (610) 252-5800

Received:

7/28/2021

Smooth-On, Inc.

Fax:

Completed:

7/29/2021

5600 Lower Macungie Road

Macungie, PA 18062

Mobile:

Email:

1216LRA

Code: Test Report:

: 3-44631-0

F

USA

PO#:

rahul@smooth-on.com

Key Test:

JR

ASTM E84 (Int Fin)

805

DATA SUMMARY:

Time to Ignition (minutes:seconds): 06:32

Maximum Flame Spread "Distance" (feet): 0

Maximum Flame Spread "Time" (seconds): 0

CODE CLASSIFICATION SYSTEM (Please see "ASTM E84 Limitations"):

Flame Spread Index		Smoke Developed		
Class I or A:	0 - 25	450 or less		
Class II or B:	26 - 75	450 or less		
Class III or C.	76 - 200	450 or less		

BUILDING CODE CITATION FOR THE CLASSIFICATION SCHEME:

(1) 2015 edition, NFPA 101 Life Safety Code, para. 10.2.3.4

(2) 2015 edition, NFPA 5000 Building Construction & Safety Code, para. 10.4.2

(3) 2018 edition, International Building Code, para. 803.1.2

LIMITATIONS OF THE ASTM E84 CLASSIFICATION SCHEME: Most building codes will accept the ASTM E84 classifications when the interior finish product is used in a sprinklered area. Certain local authorities such as NYC have more stringent requirements, i.e. Smoke Developed ranges from a maximum 25 to 100.

If the interior finish product is a textile or vinyl wall covering used in a non-sprinklered area, the NFPA 265 room corner fire test applies.

Certain products which give off excessive heat such as but not limited to cellular plastics, cellular foam (either with or without coverings as applicable), polypropylene, and high density polyethylene should be tested by NFPA 286 - Standard Methods of Fire Tests for Evaluating Contribution of Wall and Ceiling Interior Finish to Room Fire Growth. In SGS North America's opinion, the codes require NFPA 286 for such products, even in sprinklered areas.

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Tested For:

Rahul Amin

Smooth-On, Inc.

5600 Lower Macungie Road

Macungie, PA 18062

UŞA

Phone: (610) 252-5800

Fax:

Mobile:

1216LRA

PO#: Email:

rahul@smooth-on.com

Test Engineer: Jimmy Rosinsky

Received:

7/28/2021

Completed:

Test Report:

7/29/2021

Code:

3-44631-0

Key Test:

ASTM E84 (Int Fin)

805

CERTIFICATION: I certify that the reported results were obtained after testing specimens in accordance with the procedures and equipment specified above.

AUTHORIZED SIGNATURE SGS NORTH AMERICA

/jab

JUL 3 0 2021

Jillian Guillem

Enclosure: Graphs

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Program: ASTM E84 (Version 2.10)

Test Method : ASTM E84

Test Report # : 3-44631-0-F

Date : 7/29/2021

Client : Smooth-On, Inc.

Operator : Jimmy Rosinsky

Details of Preparation : The test specimen was rigid enough to be self-supporting when placed into test position. No additional support was

required. The 24 ft. length was comprised of six 4 ft. sections

butted end to end.

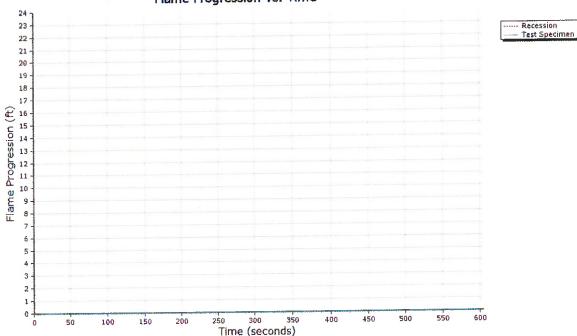
Observations : No unusual observations

Area Under Flame Curve (ft min) : 0.00
Raw Flame Spread Index (ft min) : 0.00
Rounded Flame Spread Index (ft min) : 0

Ignition Time : 06:32 mm:ss

Area Under Smoke Curve (%A min) : 0.03
Raw Smoke-Developed Index : 0.03
Rounded Smoke-Developed Index : 0
Total Gas Flow(L) : 1598.7
Total Gas Flow(ft³) : 56.5
Maximum Flame Front Achieved(ft) : 0 (@0s)

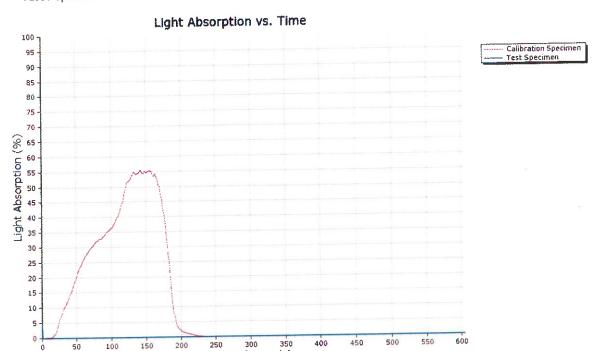
Flame Progression vs. Time





Program: ASTM E84 (Version 2.10)

Test Method Test Report # : ASTM E84 : 3-44631-0-F



Time (seconds)

SGS

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. . . .

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7/28/2021

Smooth-On, Inc.

5600 Lower Macungie Road

Fax:

Mobile:

Completed:

Code:

Macungie, PA 18062

PO#:

1216LRA

Test Report:

3-44631-1

USA

Email:

rahul@smooth-on.com

Key Test:

Expedite Fee

403

Client's Identification:

Expedite Fee for Report: 3-44631-0

Expedite Fee:

50% surcharge is added to the list price of this test at client's request for expedited testing services, half the original quoted performance time (excluding required conditioning).

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