

Received: 06/19/2019	Completed: 06/25/2019	Letter: I	AN	P.O.#:	Test Report #: 3-33083-0-
Client's Identification	Product Description: Tempotest Starlight FR-100% Solution-Dyed PET. Indoor/Outdoor Woven Fabric. Style: T6024/300. Color: Black. Weight: 8.8 oz/yd ² .				
Tested For: John Tavano Para S.p.a. Viale Monza 1, 20845 Sovico (MB) Italy	Key Test: ASTM E 84 (Int Fin)			765	
	Tel: 1 860-601-0772		Ext:		
	Fax:				

SPECIMEN MOUNTING:

- Self-supporting: The test specimen was rigid enough to be self-supporting when placed into test position. No additional support was required.
- Adhered to IRC: The test specimen was bonded to 1/4" Inorganic Reinforced Cement (IRC) boards.
- Adhered to Gypsum: The test specimen was adhered to 5/8" thick Type X gypsum board.
- Unadhered: The specimen was not adhered to any substrate. Instead, it was laid over a 2" hexagonal wire mesh screen and 1/4" rods.
- Other: _____

SPECIMEN LENGTH: The 24 ft. length was comprised of:

- Continuous unbroken 24 ft. length
- Sections: Three 8 ft. sections butted end to end
- Three 8 ft. sections positively joined
- Other: Two 12 ft. sections butted end to end

ADHESIVE (applied by SGS Govmark): No
 Yes - (specify): _____

OBSERVATIONS:

- No unusual observations
- Burning Drips to Floor further qualified as: Minor; Moderate; Major
- Delamination
- Sagging
- Shrinkage
- Fallout (specimen displacement from ceiling mount)
- Other: _____

REMARKS: None
 Other: _____

Received: 06/19/2019	Completed: 06/25/2019	Letter: I	AN	P.O.#:	Test Report #: 3-33083-0-
Client's Identification	Product Description: Tempotest Starlight FR-100% Solution-Dyed PET. Indoor/Outdoor Woven Fabric. Style: T6024/300. Color: Black. Weight: 8.8 oz/yd ² .				
Tested For: John Tavano Para S.p.a. Viale Monza 1, 20845 Sovico (MB) Italy	Key Test: ASTM E 84 (Int Fin)			765	
	Tel: 1 860-601-0772		Ext:		
	Fax:				

RESULTS:

Flame Spread Index: 0
 Smoke Developed: 5

ROUNDING (Per ASTM E84 Reporting Requirements):

Flame Spread Index value has been rounded to the nearest multiple of 5.
 Smoke Developed value has been rounded to:

Raw Data	Rounded
-----	-----
Less than 200	Nearest multiple of 5
200 or more	Nearest multiple of 50

CONCLUSION: Based on the reported Results and cited Code Classification System, the item tested is assigned a:

- Class I or A rating
- Class II or B rating
- Class III or C rating
- Fails to achieve a minimum classification thereby rendering the product unsuitable in terms of code requirement
- Based on product performance*, ASTM E84 is not a suitable test method for the material.

* Severe melt, drip, delamination or other behaviour that destroys the continuity of the flame front such that a valid flame spread is unobtainable (See "Remarks" on Page 2 of 4.)

DATA SUMMARY:

Time to Ignition (minutes:seconds): 00:22
 Maximum Flame Spread "Distance" (feet): 0
 Maximum Flame Spread "Time" (seconds): 0

CODE CLASSIFICATION SYSTEM (Please see "ASTM E84 Limitations" on Page 4):

	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

-- See Page 4 for "Building Code Citation for The Classification Scheme" --

Received: 06/19/2019	Completed: 06/25/2019	Letter: I	AN	P.O.#:	Test Report #: 3-33083-0-
Client's Identification	Product Description: Tempotest Starlight FR-100% Solution-Dyed PET. Indoor/Outdoor Woven Fabric. Style: T6024/300. Color: Black. Weight: 8.8 oz/yd ² .				
Tested For: John Tavano Para S.p.a. Viale Monza 1, 20845 Sovico (MB) Italy	Key Test: ASTM E 84 (Int Fin)			765	
	Tel: 1 860-601-0772		Ext:		
	Fax:				

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 Govmark's opinion, the codes require NFPA 286 for such products, even in sprinklered areas.

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



Phyllis Pettit

JUN 28 2019

Test Engineer: Andrew Niemczyk

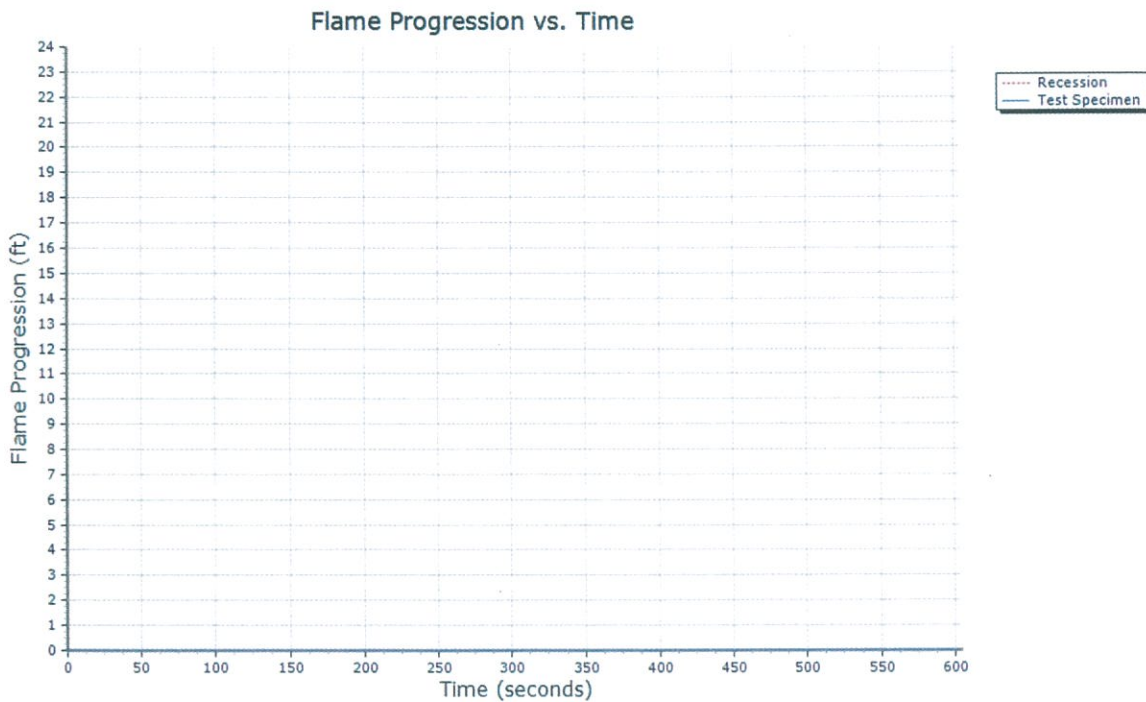
 AUTHORIZED SIGNATURE
 SGS GOVMARK
 /jab /pm

MIAMIC-OH/PARAS-IT/MIAMIC-OH

Enclosure: Graphs

Test Method : ASTM E84
 Test Report # : 3-33083-0-i
 Date : 6/25/2019
 Client : Para S.p.a.
 Operator : Andrew Niemczyk
 Details of Preparation : The test specimen was not adhered to any substrate. Instead, it was laid directly over 2" hexagonal wire mesh screen and 1/4" rods. The test specimen consisted of two 12' sections butted end to end.
 Observations : Minor flaming drip, specimen melted away.

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 : **00:22 mm:ss**
 Area Under Smoke Curve (%A min) : 3.12
 Raw Smoke-Developed Index : 3.10
 Rounded Smoke-Developed Index : **5**
 Total Gas Flow(L) : 1444.2
 Total Gas Flow(ft³) : 51
 Maximum Flame Front Achieved(ft) : 0 (@0s)



Test Method : ASTM E84
Test Report # : 3-33083-0-i

Light Absorption vs. Time

