Nantong Machs Composite Material Co., ltd.

TEST REPORT

SCOPE OF WORK
Pultrudecd grating

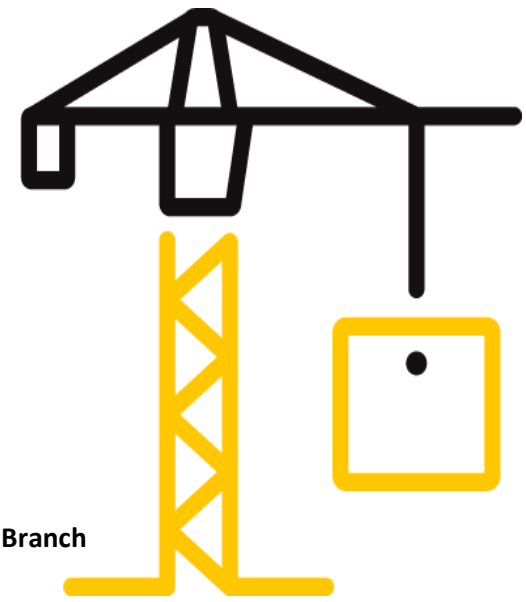
REPORT NUMBER
260811011SHF-002

TEST DATE(S)
2026-08-11- 2026-08-26

ORIGINAL ISSUE DATE
2026-08-26

PAGES
6

DOCUMENT CONTROL NUMBER
LFT-APAC-SHF-OP-10k(January 13, 2025)
© 2025 INTERTEK



Intertek Testing Services Shenzhen Ltd. Shanghai Fengxian Branch

Test Report

Statement

1.This report is invalid without company's special seal for testing on the assigned page.

2.This report is invalid without an authorized person's signature.

3.This report is invalid if altered.

4.Only the Client is authorized to permit copying or distribution of this report and then only in its entirety. Don't copy this report in partial without any official approval in written by our company. This report is invalid without re-stamping the special seal for testing in copying report.

5.This report is for the exclusive use of Intertek's Client and is provided pursuant to the agreement between Intertek and its Client. Intertek's responsibility and liability are limited to the terms and conditions of the agreement. Intertek assumes no liability to any party, other than to the Client in accordance with the agreement, for any loss, expense or damage occasioned by the use of this report. Any use of the Intertek name or one of its marks for the sale or advertisement of the tested material, product or service must first be approved in writing by Intertek. The observations and test results in this report are relevant only to the sample(s) tested. This report by itself does not imply that the material, product, or service is or has ever been under an Intertek certification program.

6.Except for the obligation, responsibility and liability (if any) for the appropriateness and professionality of afore-mentioned testing itself within the scope and amount of the testing fee received, Intertek does not and will not accept any other obligation or liability.

7.If the Client has any questions about the test results, Intertek B&C should be informed within the storage period of the samples. The sample storage period ends 5 working days after the offical report issue date. Samples of certification program are retained for the period required by the certification rules. The samples storage period shall be calculated according to the issue date of the original report in the case of quoting results and modifying reports.

8.Intertek B&C will service this report for the entire test record retention period. The test record retention period ends 6 years after this report original issue date. The test record retention period for certification program is 10 years. Test records and other pertinent project documentation will be retained for the entire test record retention period.

9.The report was digital signed by Shang Hai, Intertek Group plc, please using Adobe Acrobat Reader to verify the authenticity.

Intertek Testing Services Shenzhen Ltd. Shanghai Fengxian Branch
Plant 5 & 11(4F), No. 6958 Daye Road, Fengxian District, Shanghai, China
Tel: +86 21-61136116 Fax: 021-61189921
Website: www.intertek.com

Test Report

Original Issue Date: 2026-08-26 Intertek Report No. 260811011SHF-002

Applicant: Nantong Machs Composite Material Co., ltd.

Address: 11F, Building 3, Yonghe Building, Shennan Road, Yongxing Street, Gangzha District, Nangtong City

Attn: Gavin yang

Test Type: Performance test, samples provided by the applicant.

Product Information

Product Name	Model	Specification
Pultrudecd grating	T5020 thicness 50MM	50mm thickness
Sample ID	**Sample Amount**	**Sample Received Date**
S260811011SHF.005	4 pcs	2026-08-12
Sample Description		
Approximately 50mm thickness		

Test Methods And Standards

Test Standard	ASTM E84-26a Standard Test Method for Surface Burning Characteristics of Building Materials
Specification Standard	/
Test Conclusion	The samples were tested according to the above standards, and the results are shown in the following page.

Note:
1.This report does not involve sampling. The report only reflects conformity of the tested items of the samples provided by the applicant. Representativeness and authenticity of the submitted samples are responsibilities of the applicant.

Report Authorized

Name: Lu Cheng Name: Will Tan
Title: Reviewer Title: Project Engineer

Test Report

Original Issue Date: 2026-08-26 Intertek Report No. 260811011SHF-002

Test Items, Method and Results:

Test Method: ASTM E84-26a Standard Test Method for Surface Burning Characteristics of Building Materials

Specimen Mounting Method:

The 24.11-ft. long test specimen consisted of four 6.03-ft. long x 24.02-in. wide x 2.00-in. thick "Pultrudecd grating".

The wide surface was exposed to the fire.

The specimen was self-supported.

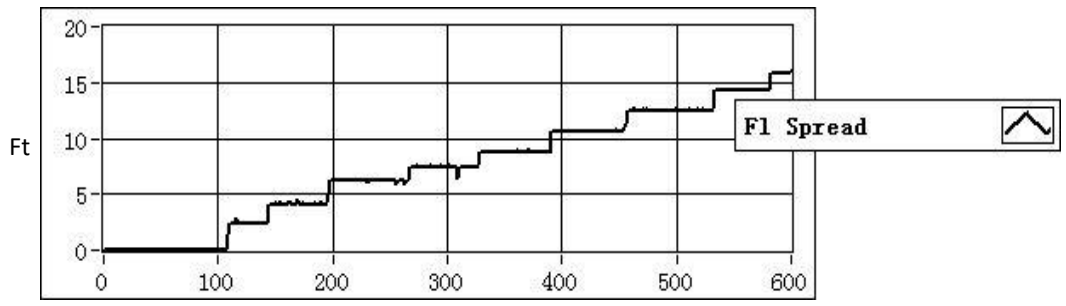
Test Observation (min:sec)

Melting	Blistering	Transient Ignition	Steady Ignition	Flaming drops
/	/	1:09	1:32	/
Delamination	Sagging	Shrinkage	Falling	After Flame
/	/	/	/	＞60s

Test Result

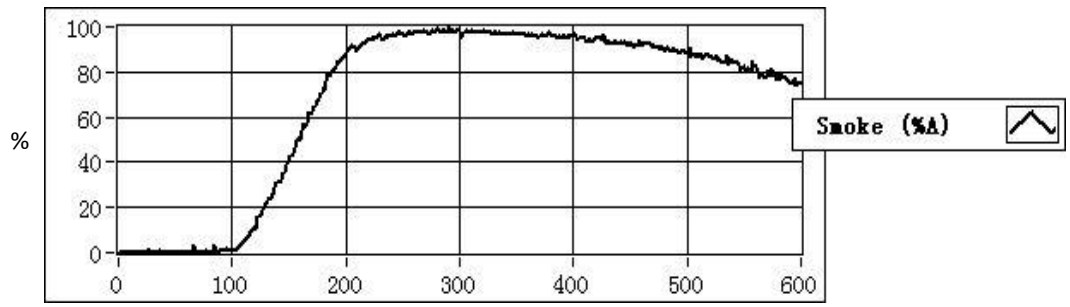
Flame Spread Index (FSI)	40	Smoke Developed Index(SDI)	1000

Flame spread graph



Time (Sec)

Smoke developed graph



Time (Sec)

Test Report

Original Issue Date: 2026-08-26 Intertek Report No. 260811011SHF-002

Test Items, Method and Results:

Commentary on Classification (for information only)

Neither ASTM E84 nor UL 723 include classification criteria for the results obtained from testing. The international Building Code® (IBC), NFPA 101: Life Safety Code® (NFPA 101), and NFPA 5000: Building Construction and Safety Code® (NFPA 5000) all describe a set of classification criteria required for interior wall and ceiling finish materials based on Flame Spread Index and Smoke Developed Index when tested in accordance with ASTM E84 or UL 723. The classification criteria for all three model codes is the same:

Class	Flame Spread Index	Smoke Developed Index
A	0-25	0-450
B	26-75	0-450
C	76-200	0-450

Note that classification under this scheme for interior wall and ceiling finishes does not strictly apply to all products or materials tested in accordance with ASTM E84 or UL 723 because not all products or materials are recommended or suitable for use as interior wall or ceiling finish materials in buildings, regardless of the surface burning characteristics. Consult with the product manufacturer and the local authority having inrisdiction(AHJ) regarding specific applications of a given product or material.

Test Report

Original Issue Date: 2026-08-26 Intertek Report No. 260811011SHF-002

Appendix A: Sample Received Photo





Revision:

NO.	Date	Changes
260811011SHF-002	2026-08-26	First issue