



Test Report


Report No. TC.22.03.001146

Date of Issue 03/31/2022

Applicant: Dongying Deyou Tape Co., Ltd.

Applicant address: South of Weisi Road, East of Jingba Road, Kenli Economic Development Zone, Dongying, Shandong, China

Description of the test subject:

Sample	Description	Photo
001	<p>Sample Description: Aluminum foil tape</p> <p>Style No.: AFA</p> <p>End use: thermal insulation material</p> <p>Manufacturer: Dongying Deyou Tape Co., Ltd.</p>	

Receipt Date of Sample: 03/04/2022

Date of Testing: From 03/14/2022 to 03/23/2022

Sample submitted: The sample(s) was (were) submitted by applicant and identified.

Conclusion:

Test Items			Conclusion
No.	Items	Standard	
1	Test for Surface Burning Characteristics	UL 723-2018	Class A

Note: (1) The TÜV SÜD SW Rail Transportation Technology (Jiangsu) Co., Ltd. General Terms & Conditions applied, for full content please visit <https://www.tuvsud.cn/zh-cn/terms-and-conditions>. (2) The results relate only to the sample(s) as received. (3) The test report shall not be reproduced except in full without the written approval of the company.

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Test Results

1. UL 723-2018 Standard for Safety for Test for Surface Burning Characteristics of Building Materials

Sample Description:

Area density	168g/m ²
Exposed face	Smooth face
Conditioning	Prior to testing, the sample was conditioned, To a constant weight at a temperature of (73±4)°F(23±2.8)°C and at a relative humidity of (50±5)%
Mounting method	As per client's requirement, the sample was self-adhesive to the substate. The substate is fiber-cement board with a density is 1440kg/m ³ . The test specimen consisted of a total 3 sections of material. The sections were butted together during testing to form the required specimen length.

Results:

Test data and observations:

Ignition time:	37 seconds.
Maximum flame spread:	2.5 ft
Time To Maximum Spread:	251 seconds.
Observations of the burning characteristics	No
Test Duration:	10 minutes.
FS*Time area (ft*min):	20.4
Smoke area (%A*min):	10.6
Heptane smoke area (%A*min):	74.2

Summary of results:

FSI (Flame spread index)	SDI (Smoke developed index)
10	15

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Rating:

The National Fire Protection Association Life Safety Code 101 and ICC International Building Code have a means of classifying interior wall and ceiling finish materials with respect to Flame Spread and Smoke Developed when tested in accordance with ASTM E84, Standard Test Method for Surface Burning Characteristics of Building Materials, or UL 723, Standard for Test for Surface Burning Characteristics of Building Material.

The classifications are as follows:

	<u>Flame-Spread Index (FSI)</u>	<u>Smoke-developed Index(SDI)</u>
Class A	0 - 25	0 - 450
Class B	26 - 75	0 - 450
Class C	76 - 200	0 - 450

Conclusion:

In accordance with the interior wall and ceiling finish classification in the National Fire Protection Association Life Safety Code 101 and the ICC International Building Code, the submitted sample meets the requirement of Class A.

GRAPHICAL RESULTS:

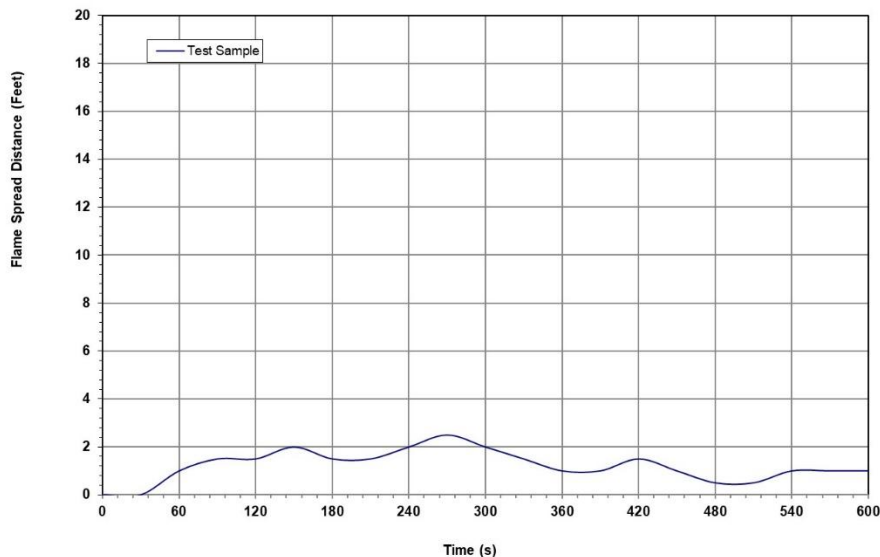


Figure 1. Flame Spread Chart

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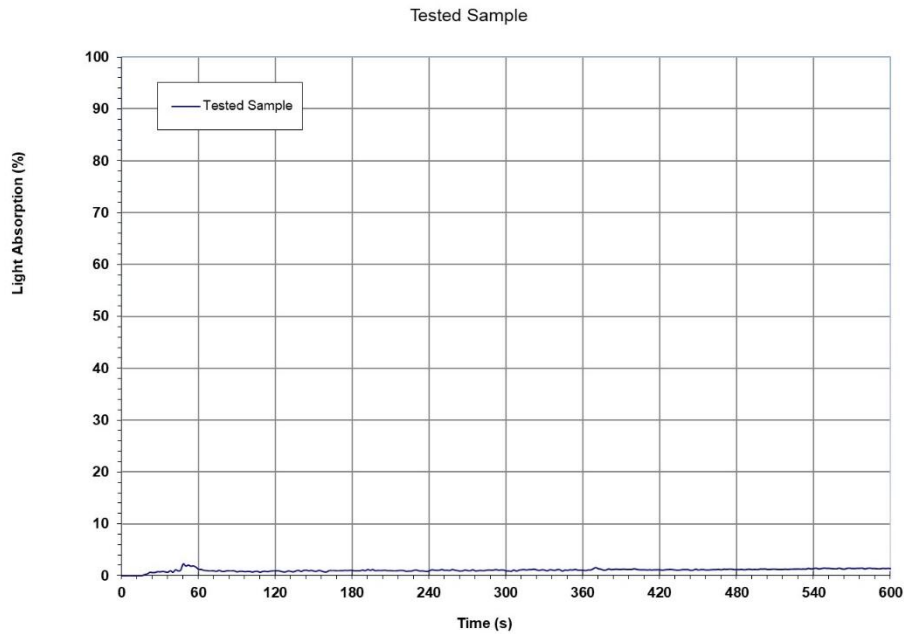


Figure 2. Smoke Developed Chart

Statement: The test results relate to the behaviour of the test specimens of a product under the particular conditions of the test; they are not intended to be the sole criterion for assessing the potential smoke and toxicity hazard of the product in use. Test results are just for internal reference.

TÜV SÜD SW Rail Transportation Technology (Jiangsu) Co., Ltd.

Drafted by:

Jinqiang Zhou

Approved by:

Yanan Liu

-End of Report-

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