

Test Report No. 7191300901-MEC23-YWA
dated 30 Jan 2023

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PSB Singapore

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SUBJECT:

Surface spread of flame test on Brand: "Jonite", Model: "Diamond" Ventilation block submitted by Jonite Pte Ltd on 04 Jan 2023.

TESTED FOR:

Jonite Pte Ltd
5 Upper Aljunied Link
#01-01, Quartz Industrial Building
Singapore 367903

Attention to: Lexter Chen

DATE OF TEST:

19 Jan 2023

PURPOSE OF TEST:

To determine the tendency of the surface of a material or a combination of materials to support the spread of flame across its surface and to classify the surface according to the test given in British Standard 476 : Part 7 : 1997 "Method of test to determine the classification of the surface spread of flame of products".

The test was conducted at TÜV SÜD PSB's fire test laboratory located at No. 10 Tuas Avenue 10, Singapore 639134.



LA-2007-0380-A LA-2007-0386-C
LA-2007-0381-F LA-2010-0464-D
LA-2007-0382-B LA-2018-0702-B
LA-2007-0383-G LA-2018-0703-G
LA-2007-0384-G LA-2020-0747-L
LA-2007-0385-E

The results reported herein have been performed in accordance with the terms of accreditation under the Singapore Accreditation Council. Inspections/Calibrations/Tests marked "Not SAC-SINGLAS Accredited" in this Report are not included in the SAC-SINGLAS Accreditation Schedule for our inspection body/laboratory.

Laboratory:
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Co. Reg : 199002667R

Regional Head Office:
TÜV SÜD Asia Pacific Pte. Ltd.
15 International Business Park
TÜV SÜD @ IBP
Singapore 609937
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DESCRIPTION OF SPECIMENS:

Nine pieces of specimen, said to be Brand: "Jonite", Model: "Diamond" Ventilation block, each of nominal size of 885mm x 270mm were received. The thickness, area density and density of the specimen were measured to be 25mm, 50kg/m² and 2008kg/m³ respectively.

Details of the product, as provided by the sponsor of test, are as follows:

Brand	Jonite
Model reference	Diamond
Generic product name	Ventilation block
Material composition	Stone composite
Country of Origin	Singapore
Nominal thickness	25mm
Nominal Area density	N/A
Nominal density	N/A
Fire retardant	N/A

A handwritten signature in black ink, appearing to read 'Ying Han', is written over a large, faint, grey TUV SUD logo watermark that spans the lower half of the page.

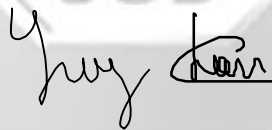
TEST PROCEDURE:

Prior to test, the specimens were prepared and conditioned in accordance with paragraphs 5.3 to 5.6 of the standard and secured to a specimen holder as described in paragraph 6.3.

Six specimens, backed with non-combustible board, were tested with either face exposed to the specified thermal radiation from the apparatus described in paragraph 6.1 of the standard. The intensity of the radiated heat incident on the specimen varies with distance from the hotter end, so that when the specified calibration panel is mounted in the place to be occupied by the specimen, the irradiance of the radiometer is as given in Table 1. The test was terminated when the flame front reached the 825mm reference line, or after 10 minutes has elapsed, whichever is the shorter.

Table 1 : Irradiance Along Horizontal Reference Line on the Calibration Board

Distance along reference line from inside edge of specimen holder mm	Irradiance kW/m ²		
	specified	min.	max.
75	32.5	32.0	33.0
225	21.0	20.5	21.5
375	14.5	14.0	15.0
525	10.0	9.5	10.5
675	7.0	6.5	7.5
825	5.0	4.5	5.5





RESULTS OF TEST:

Specimen No.	1	2	3	4	5	6
Spread of flame at first 1½ minutes (mm)	0	0	0	0	0	0
Distance (mm)	Time of spread of flame to indicated distance (minutes • seconds)					
Start of flaming	nil	nil	nil	nil	nil	nil
75	-	-	-	-	-	-
165						
190						
215						
240						
265						
290						
375						
455						
500						
525						
600						
675						
710						
750						
785						
825						
865						
Time of maximum spread of flame (minutes • seconds)	-	-	-	-	-	-
Distance of maximum spread of flame (mm)	0	0	0	0	0	0
Comments	None					

Ying Han

Classification of Surface Spread of Flame

Classification	Spread of flame at 1.5 min.		Final spread of flame	
	Limit (mm)	Limit for one specimen in sample (mm)	Limit (mm)	Limit for one specimen in sample (mm)
Class 1	165	165 + 25	165	165 + 25
Class 2	215	215 + 25	455	455 + 45
Class 3	265	265 + 25	710	710 + 75
Class 4	Exceeding the limits for class 3			

CONCLUSION:

In accordance with the class definitions specified in the Standard, the test results show that the sample tested has a Class 1 Surface Spread of Flame.

REMARKS:

1. The test results relate only to the behaviour of the test specimens of the product under the particular conditions of test; they are not intended to be the sole criterion for assessing the potential fire hazard of the product in use.
2. Photograph of specimen is shown in Plate 1.



Ye Wint Aung
Higher Associate Engineer



Chan Lung Toa
Assistant Vice President
Fire Testing
Mechanical Centre



Plate 1: Photograph of specimen

Yuy



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Effective 26 January 2021

