

Test Report

No. SDFS2405003665RS

Date: Jun.18, 2024 Page 1 of 6

YANTAI MONCO BOARD CO.,LTD

EAST HUAIHAI ROAD.NANWANG INDUSTRIAL ZONE ,PENGLAI CITY,SHANDONG PROVINCE,CHINA

Sample Description: DECORATIVE LAMINATE (HGS)**Color:** B266N-01 GREY**Thickness:** 1mm**Product usage:** DECORATION, FURNITURE FINISH

The above data and information was / were submitted and identified on behalf of the client. SGS is not responsible for the authenticity, integrity and results of the data and information and / or the validity of the conclusion.

The report is English version of Chinese test report SDFS2405003665RS_CN. The Chinese version shall prevail in case of discrepancy between the Chinese version and English version.

Sample Receiving Date: May 24, 2024**Test Performing Date:** May 24, 2024 to Jun.05, 2024**Test Requested:**

GB 8624-2012 Fire classification for burning behavior of building materials and products

Clause 5.1.1 Table 2 Classes of reaction to fire performance for slab building materials and construction products

Test Results: -- See attached sheet --**Conclusion:** According to the test result, Combustion properties identified as: GB 8624 B₁ (C-s2,d0)

Signed for and on behalf of
Shunde Branch
SGS-CSTC Co., Ltd.

刘楠

Scan to see the report



SDFS2405003665RS

Verification:
check.sgsonline.com.cn

Liu Nan
Approved signatory



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I. Test Conducted

GB 8624-2012 Fire classification for burning behavior of building materials and products.

Clause 5.1.1 Table 2 Classes of reaction to fire performance for slab building materials and construction products. And the test methods as following:

1. GB/T 20284-2006 Single burning item test for building materials and products;
2. GB/T 8626-2007 Test method of flammability for building materials;

II. Sample Description

Density	1.35kg/m ²
Thickness	1.0mm
Construction	Multi layer material structure
Exposed surface	White surface

Mounting and fixing (For GB/T 20284):

Test substrate was calcium silicate board meets the requirement of the standard, the density of 900 kg/m³ and thickness of 10mm.

Specimen was installed on the substrate by screw. There was no joint between specimens. Specimen had a ventilated cavity of 80mm away from the backing board.

III. Test Results:

Test method	Parameter	Number of tests	Results
GB/T 20284-2006	FIGRA _{0.2MJ} (W/s)	3	174.8
	FIGRA _{0.4MJ} (W/s)		174.8
	LFS< edge of specimen (Yes/No)		Yes
	THR _{600s} (MJ)		2.6
	SMOGRA (m ² /s ²)		157.4
	TSP _{600s} (m ²)		75.6
	Flaming particles or droplets within 600s (Yes/No); Combustion time, if any burning time: (≤10s / >10s)		No
GB/T 8626-2007 Exposure = 30 s	Whether vertical flame spread (Fs) in excess of 150 mm within 60s (Yes/No)	12	No
	Ignition of the filter paper within 60s(Yes/No)		No



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Remark:

FIGRA-Fire growth rate index used for classification purposes [W/s]

LFS-Lateral flame spread [m]

THR_{600s}-Total heat release within 600 s [MJ]

SMOGRA-Smoke growth rate [m²/s²]

TSP_{600s} – Total smoke production within 600s[m²]

IV. Classification and direct field of application

This classification has been carried out in accordance with GB 8624-2012 Clause 5.1.1 Table 2 Classes of reaction to fire performance for slab building materials and construction products: The classes with their corresponding fire performance are given in Appendix A.

a) The product in relation to its reaction to fire behaviour is classified:

Reaction to fire classification: GB 8624 B₁ (C-s2, d0)

b) Field of application

This classification is valid for the following end use applications:

--- With all substrates classified as A1 or A2

--- With mechanically fixing

--- No joint

Appendix A

GB 8624 Table 2 Classes of reaction to fire performance for slab building materials and construction products

Class		Test method(s)		Classification criteria
A	A1	GB/T 5464 ^a	and	$\Delta T \leq 30^\circ\text{C}$; $\Delta m \leq 50\%$; $t_i = 0$
				PCS $\leq 2.0\text{MJ/kg}$ ^{a, b, c, e} ; PCS $\leq 1.4\text{MJ/m}^2$ ^d
	A2	GB/T 5464 ^a or	and	$\Delta T \leq 50^\circ\text{C}$; $\Delta m \leq 50\%$; $t_i \leq 20\text{ s}$
				PCS $\leq 3.0\text{MJ/kg}$ ^{a, e} ; PCS $\leq 4.0\text{MJ/m}^2$ ^{b, d}



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Class	Test method(s)	Classification criteria
	GB/T 20284	FIGRA _{0.2MJ} ≤120W/s; LFS< edge of specimen; THR _{600s} ≤7.5 MJ
B ₁	B GB/T 20284 and GB/T 8626 Exposure =30s	FIGRA _{0.2MJ} ≤120W/s; LFS< edge of specimen; THR _{600s} ≤7.5MJ
		Fs≤150mm within 60s; No ignition of paper within 60s
	C GB/T 20284 and GB/T 8626 Exposure=30s	FIGRA _{0.4MJ} ≤250W/s; LFS< edge of specimen; THR _{600s} ≤15MJ
		Fs≤150mm within 60 s; No ignition of paper within 60s
B ₂	D GB/T 20284 and GB/T 8626 Exposure=30s	FIGRA _{0.4MJ} ≤750W/s
		Fs≤150mm within 60 s; No ignition of paper within 60s
	E GB/T 8626 Exposure =15s	Fs≤150mm within 20 s; No ignition of paper within 20s
B ₃	F	No performance determined

^a For homogeneous products or substantial components of non-homogeneous products.

^b For any external non-substantial component of non-homogeneous products.

^c any external non-substantial component having a PCS ≤ 2.0 MJ/m² , provided that the product satisfies the following criteria of FIGRA_{0.2MJ} ≤ 20 W/s, and LFS < edge of specimen, and THR_{600s} ≤ 4.0 MJ, and s1, and d0 can be defined A1.

^d For any internal non-substantial component of non-homogeneous products.

^e For the product as a whole.

Insulation foam metope, in addition to comply with stipulated in table 2 shall be at the same time satisfy the following requirements: B₁ level oxygen index (OI 30% or higher; B₂ level oxygen index (OI 26% or higher)



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GB 8624 Table B.1 smoke production levels and grading criterion

SMOGRA	Test Method	Requirement
s1	GB/T 20284	$SMOGRA \leq 30m^2/s^2$; $TSP_{600s} \leq 50m^2$
s2		$SMOGRA \leq 180m^2/s^2$; $TSP_{600s} \leq 200m^2$
s3		not s1 or s2

GB 8624 Table B.2 Burning droplets / particles grades and grading criterion

Burning droplets / particles grades	Test Method	Requirement
d0	GB/T 20284	No flaming droplets/ particles within 600 s
d1		Flaming droplets/ particles persisting longer than 10 s within 600 s
d2		not d0 or d1

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 fire hazard of the product in use.

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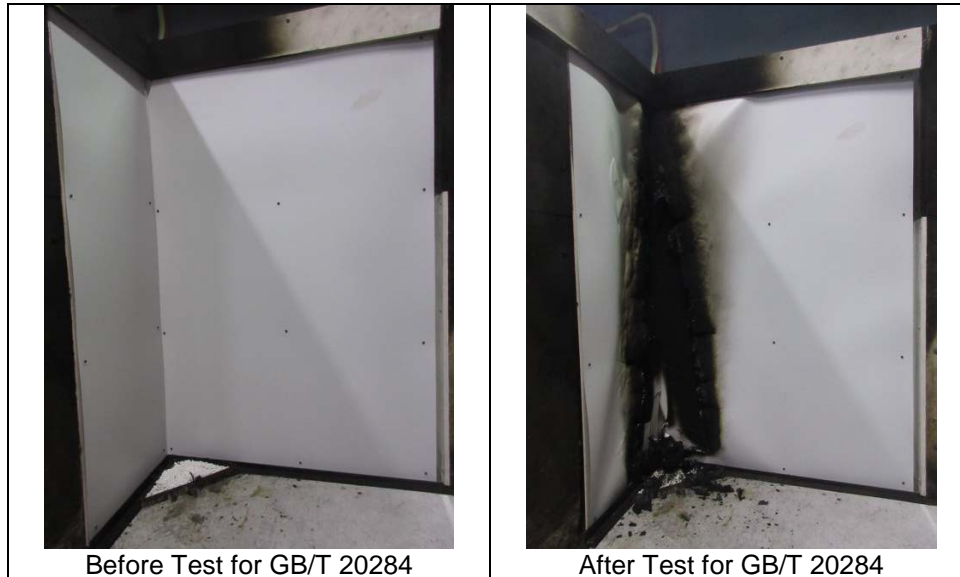
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Photo Appendix:



Remark: This test report is issued based on the modification of the original No. SDFS2405003664RS test report issued on Jun.05, 2024. And the original report is still valid. According to applicant's requirements, following changes are included:

- a. Change of applicant's name.
- b. Change of applicant's address.

End of Report



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