TEST REPORT

No. : XMIN2012012314CM

Date : Dec 24, 2020

scan to see the report

XMIN2012012314CM

CUSTOMER NAME: DRAGONSHINE INDUSTRIAL(HK) LIMITED

ADDRESS: MEIDU PLAZA, MOGANSHAN RD, 310010, HANGZHOU, P.R. CHINA

Sample Name	:	WOVEN VINYL WALLPAPER
Material and Mark	:	VINYL

Above information and sample(s) was/were submitted and confirmed by the client. SGS, however, assumes no responsibility to verify the accuracy, adequacy and completeness of the sample information provided by client.

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SGS Ref. No.	:	SDFS2012008207FF
Date of Receipt	:	Dec 11, 2020
Testing Start Date	:	Dec 11, 2020
Testing End Date	:	Dec 24, 2020
Test result(s)	:	For further details, please refer to the following page(s) (Unless otherwise stated the results shown in this test report refer only to the sample(s) tested)

Signed for
SGS-CSTC Standards Technical Services Co. , Ltd Xiamen Branch Testing Center

Bryan Hong
Authorized signatory

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No. : XMIN2012012314CM
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Test Result Summary

Test(s) Requested	Result(s)
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	Classification： B_2（D-s2,d0）

Summary:

1. For further details, please refer to the following page(s).

Note: The above test was carried out by SGS-CSTC Standards Technical Services Co., Ltd. Shunde Branch.

SAMPLE INFORMATION AND PICTURES

Thickness: About 1.0 mm
Density: About 608 g/m^2
★Product usage: Wall decoration material

The above data and information with ★ 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. results apply to the sample as received.



Before Test for GB/T 20284



After Test for GB/T 20284

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TESTS AND RESULTS

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.

Mounting and fixing (For GB/T 20284):
There is no ventilation cavity behind the specimen.
Test sample is installed on the substrate by screw (test substrates is calcium silicate board and meets the requirement of standard, the density of 900 kg/m^3 and thickness of 10mm).

Test Results:

Test method	Parameter	Number of tests	Results
GB/T 20284-2006	FIGRA$_{0.2MJ}$（W/s）	3	225.2
	FIGRA$_{0.4MJ}$（W/s）		225.2
	LFS < edge of specimen		No
	THR$_{600s}$（MJ）		8.8
	SMOGRA（m^2/s^2）		66.0
	TSP$_{600s}$（m^2）		180.3
	Flaming particles or droplets within 600s (Yes/No); Combustion time, if any burning time: (≤10s / >10s)		No
GB/T 8626-2007 Exposure = 30 s	*Fs* ≤ 150 mm within 60s	12	Yes
	Ignition of the filter paper within 60s		No

Remark:

FIGRA-Fire growth rate index used for classification purposes [W/s]
For Class A2 and Class B FIGRA= FIGRA$_{0.2MJ}$
For Class C and Class D FIGRA= FIGRA$_{0.4MJ}$
LFS - Lateral flame spread [m]
THR$_{600s}$ -Total heat release within 600 s [MJ]
SMOGRA-Smoke growth rate [m^2/s^2]
TSP$_{600s}$ -Total smoke production within 600 s [m^2]

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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

Conclusion:

According to the test result, Combustion properties identified as: GB 8624 B_2（D-s2,d0）;

The submitted sample satisfies Class B_2 requirement of reaction to fire performance for slab building materials and construction products in GB 8624-2012.

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		△ T≤30℃; △ m≤50%; t_f=0
		GB/T 14402		PCS≤2.0MJ/kg [a, b, c, e]; PCS≤1.4MJ/m^2 [d]
	A2	GB/T 5464[a] or	and	△ T≤50℃; △ m≤50%; t_f≤20 s
		GB/T 14402		PCS≤3.0MJ/kg [a, e]; PCS≤4.0MJ/m^2 [b, d]
		GB/T 20284		FIGRA$_{0.2MJ}$≤120W/s; LFS< edge of specimen; THR$_{600s}$≤7.5 MJ
B_1	B	GB/T 20284 and		FIGRA$_{0.2MJ}$≤120W/s; LFS< edge of specimen; THR$_{600s}$≤7.5MJ
		GB/T 8626 Exposure =30s		Fs≤150mm within 60s; No ignition of paper within 60s
	C	GB/T 20284 and		FIGRA$_{0.4MJ}$≤250W/s; LFS< edge of specimen; THR$_{600s}$≤15MJ
		GB/T 8626 Exposure=30s		Fs≤150mm within 60 s; No ignition of paper within 60s

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Class		Test method(s)	Classification criteria
B_2	D	GB/T 20284 and	$FIGRA_{0.4MJ}$≤750W/s
		GB/T 8626 Exposure=30s	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/m^2 , 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.

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Table B.1 smoke production levels and grading criterion		
SMOGRA	Test Method	Requirement
s1	GB/T 20284	SMOGRA ≤ 30m²/s² ; TSP_{600s} ≤ 50m²
s2		SMOGRA ≤ 180m²/s² ; TSP_{600s} ≤ 200m²
s3		not s1 or s2

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.

Warning:
This classification report does not represent type approval or certification of the product.

Note: This test report is an English version of test report No.:XMIN2012012314CM_CN dated:2020-12-24 issued by SGS, this report is for reference only.

******** End of report********

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