TEST REPORT

No. : GZIN160300393CCM
Date : Mar. 31, 2016

CLIENT NAME: FOSHAN YUEHAO CONSTRUCTION MATERIAL CO., LTD.
ADDRESS: LUBAO AREA 3-2, SANSHUI CENTRAL SCIENCE INDUSTRAIL DISTRICT, GUANGDONG, CHINA

The following sample(s) was/ were submitted and identified on behalf of the client as:

Sample Name	:	PVC PLYMAR SHUZHI TITLE
SGS Ref. No.	:	GZIN160300393CCM
Test Performed	:	Selected test(s) as requested by applicant
Date of Receipt	:	Mar. 16, 2016
Test Period	:	Mar. 17, 2016 to Mar. 29, 2016

Test result(s) : Please refer to the following page(s)

********To be continued********

Signed for and on behalf of
SGS-CSTC Standards Technical Services Co.,Ltd
Guangzhou Branch

Jay Xue
Authorized signatory

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TESTS AND RESULTS

Test Conducted:

GB 8624-2012 Fire classification for burning behavior of building materials and products, Class B_1

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):

The specimens are fixed mechanically to the trestle.

Both wings were clamped at the top and the bottom.

Test Results:

Test method	Parameter	Number of tests	Results
GB/T 20284	$FIGRA_{0.4MJ}$（W/s）	3	159.8
	THR_{600s}（MJ）		3.9
	SMOGRA（m^2/s^2）		19.0
	TSP_{600s}（m^2）		8.9
	LFS < edge of specimen		Yes
	Flaming particles or droplets		No
GB/T 8626 Exposure = 30 s	*F*s ≤ 150 mm within 60s	6	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 and the classes with their corresponding fire performance are given in Table 2 of Annex A

Classification:

According to the test result, Combustion properties identified as: GB 8624 B_1（C-s1,d0）

The submitted sample **satisfies** GB 8624-2012 Class B_1

Annex A

Table 2-Classes of reaction to fire performance for construction products excluding floorings and linear pipe thermal insulation products

Class		Test method(s)		Classification criteria
A	A1	GB/T 5464[a]	and	$\triangle T$≤30℃, and $\triangle m$≤50%, and t_f=0(i.e. no sustained flaming)
		GB/T 14402		*PCS*≤2.0MJ/kg [a, b, c, e] and *PCS*≤1.4MJ/m^2 [d] and
	A2	GB/T 5464[a] or	and	$\triangle T$≤50℃, and $\triangle m$≤50%, and t_f≤20 s
		GB/T 14402		*PCS*≤3.0MJ/kg [a, e] and *PCS*≤4.0MJ/m^2 [b, d] and
		GB/T 20284		$FIGRA_{0.2MJ}$≤120W/s and *LFS*＜ edge of specimen and THR_{600s}≤7.5 MJ

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Class		Test method(s)	Classification criteria
B_1	B	GB/T 20284 and	$FIGRA_{0.2MJ}$≤120W/s and *LFS*< edge of specimen and THR_{600s}≤7.5MJ
		GB/T 8626 Exposure =30s	*F*s≤150mm within 60s; No ignition of paper within 60s
	C	GB/T 20284 and	$FIGRA_{0.4MJ}$≤250W/s and *LFS*< edge of specimen and THR_{600s}≤15MJ
		GB/T 8626 Exposure=30s	*F*s≤150mm within 60 s No ignition of paper within 60s
B_2	D	GB/T 20284 and	$FIGRA_{0.4MJ}$≤750W/s
		GB/T 8626 Exposure=30s	*F*s≤150mm within 60 s No ignition of paper within 60s
	E	GB/T 8626 Exposure =15s	*F*s≤150mm within 20 s No ignition of paper within 20s
B_3	F	No performance determined	

[a] For homogeneous products and 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 ≤ 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 ≤ $30m^2/s^2$; TSP_{600s} ≤ $50m^2$
s2		SMOGRA ≤ $180m^2/s^2$; TSP_{600s} ≤ $200m^2$
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		no 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.

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SAMPLE INFORMATION AND PICTURES

Thickness: About 2.8mm

	
Before Test (GB/T 20284)	After Test (GB/T 20284)

Remark:

1. The above test was carried out by a SGS internal laboratory.
2. The report is English version of Chinese test report GZIN160300393CCM_CN. The Chinese version shall prevail in case of discrepancy between the Chinese version and English version.

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