

Test ReportNo. SDFS2104002398FFDate: Apr.30, 2021Page 1 of 5

GUANGDONG OPALY NEW MATERIALS TECHNOLOGY CO.,LTD ROOM 1218, NO.2 BUILDING, AREA 9, AOYUAN CHENGSHI TIANDI, HANXI AVENUE EAST, PANYU DISTRICT, GUANGZHOU, GUANGDONG, 511495 CHINA

Sample Description	:	MODIFIED ACRYLIC
Manufacturer	:	YUNFU OPALY NEW MATERIALS TECHNOLOGY CO., LTD

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:	GZIN2104019925CM
:	Apr.20, 2021
:	Apr.20, 2021 to Apr.30, 2021
	:

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 ₁ (B-s1,d0)
Summary:	

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

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

Irvette Zhang Approved signatory





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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 5mm ventilation cavity behind the specimen. The specimen was tested free standing. Both wings were clamped at the top and the bottom. There is no joint between the specimens.

Test Results:

Test method	Parameter	Number of tests	Results
	FIGRA _{0.2MJ} (W/s)	3	21.5
GB/T 20284-2006	FIGRA _{0.4MJ} (W/s)		21.5
	LFS < edge of specimen		Yes
	THR _{600s} (MJ)		1.5
	SMOGRA (m²/s²)		5.1
	TSP _{600s} (m ²)		32.4
	Flaming particles or droplets within 600s (Yes/No); Combustion time, if any burning time: (≤10s / >10s)		No
GB/T 8626-2007	<i>F</i> s ≤ 150 mm_within 60s	12	Yes
Exposure = 30 s Ignition of the filter paper within 60s		12	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 [m²/s²]

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

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_1 (B-s1,d0);

The submitted sample satisfies Class B₁ requirement of reaction to fire performance for slab building materials and construction products in GB 8624-2012.



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

Class Test r		Test metho	d(s)	Classification criteria		
	A1	GB/T 5464ª	and	△ T≤30°C; △ m≤50%; t _f =0		
		GB/T 14402		PCS≤2.0MJ/kg ^{a, b, c, e} ; PCS≤1.4MJ/m ^{2 d}		
		GB/T 5464 ^a or	and	△ T≤50°C; △ m≤50%; t _f ≤20 s		
	A2 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		
	В	GB/T 20284 and		FIGRA₀.₂мJ≤120W/s; LFS< edge of specimen; THR _{600s} ≤7.5MJ		
B1		GB/T 8626 Exposure =30s		Fs≤150mm within 60s; No ignition of paper within 60s		
	С	GB/T 20284 and		FIGRA₀.₄мյ≤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		
		GB/T 20284	and	FIGRA₀.₄мJ≤750W/s		
B ₂	D	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 \leq 2.0 MJ/m², provided that the product satisfies the following criteria of FIGRA_{0.2MJ} \leq 20 W/s, and LFS < edge of specimen, and THR_{600s} \leq 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 s2	GB/T 20284		SMOGRA \leq 30m ² /s ² ;			
			$TSP_{600s} \le 50m^2$			
			SMOGRA \leq 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
 No flaming droplets/ particles within 600 s

particles grades		
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.



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SAMPLE INFORMATION AND PICTURES

Thickness: 20mm Density: 38.7kg/m² ★Product usage: Metope / table top

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Before Test for GB/T 20284



After Test for GB/T 20284

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End of Report



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