

YDL STONE (XIAMEN CITY YADILONG IMP & EXP CO., LTD)
SUITE C 10TH FLOOR TONGBAO BUILDING, NO.1-3 CHANGQING ROAD, XIAMEN, CHINA

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

Sample Name : YDL QUARTZ STONE

SGS Refer No. : SDHL1601000770FB

Trademark : 

Date of Receipt : Dec.22, 2015

Test Period : Dec.22, 2015 to Jan.26, 2016

Test Result(s) : For further details, please refer to the following page(s)

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

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



Civi Huang
Authorized Signatory



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

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TEST REPORT

No. : XMCCM151201457

Date : Jan.26, 2016

Page: 2 of 8

Summary of test results:

(Average value)

No.	Test items	Test methods	Test results	Page
1	Stain resistance test	Refer to ANSI Z124.6-2007	Total stain resistance value: 28	3
2	Cigarette test(polished)	ANSI Z124.6-2007	After test, there were visible stains remain which can be restorable using clean cheesecloth and water.	4
3	Radioactivity	GB 6566-2010	Class A See the following	4
4	Surface Burning	ASTM E84-15a	Class A	5

Note: Surface burning was carried out by a SGS internal laboratory.

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



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1. Stain resistance test

Test Method:

Refer to ANSI Z124.6-2007 Plastic Sinks - 5.2 Stain resistance test

Specimens: artificial stone, 100mm×100mm×20mm, 14pcs, one face polished

Testing surface: polished

Test Result:

Reagents	Test results			
	(Covered)		(Uncovered)	
	Individual stain rating	Depth removed	Individual stain rating	Depth removed
Whole Milk	1	/	1	/
Ammonia Detergent	1	/	1	/
Scale Remover	1	/	1	/
Wine Vinegar	1	/	1	/
Pink Wine	1	/	1	/
Floor Cleaner	1	/	1	/
Orange Juice	1	/	1	/
Coffee	1	/	1	/
Hydrochloric Acid (50%)	1	/	1	/
Sodium Hydroxide (50%)	1	/	1	/
Lemon Juice	1	/	1	/
Vinegar	1	/	1	/
Liquid Shampoo	1	/	1	/
Shower Gel	1	/	1	/
Total stain resistance rating	28			
Maximum individual depth of staining	/			

Note: 1. The stain reagents were selected as client required.

2. The individual stain rating “1” means –non- staining

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



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2. Cigarette test

Test Method:

ANSI Z124.6-2007 Plastic Sinks - 5.4 Cigarette test

Specimens: artificial stone with one face polished, 100mm×100mm×20mm, 3pcs

Testing surface: polished

Test Result:

After test, there were visible stains remain which can be restorable using clean cheesecloth and water.

3. Radioactivity

Test Method:

GB 6566-2010 Limit of radionuclides in building materials

Sample description: artificial stone, see the photo

Test Result:

Test items	Requirement in Standard (requirements of Class A of GB 6566-2010)	Test Results
Internal exposure index I_{Ra}	$I_{Ra} \leq 1.0$	<0.1
External exposure index I_r	$I_r \leq 1.3$	<0.1

Specific activity of the nuclides

Nuclides	Units	Specific activity
Ra-226	Bq/kg	0.9
Th-232		0.1
K-40		0.0

Note: The sample complies with requirements of GB 6566-2010 Class A decorative materials, it's unlimited in manufacture, selling and using.

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



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4. Surface burning

Test Conducted:

This test was conducted in accordance with ASTM E84-15a Standard Test Method for Surface Burning Characteristics of Building Materials

Introduction:

The method, designated as ASTM E84-15a, "Standard Method of Test for Surface Burning Characteristics of Building Materials", is designed to determine the relative surface burning characteristics of materials under specific test conditions. Results are expressed in terms of flame spread index (FSI) and smoke developed index (SDI).

The purpose of this test method is to determine the relative burning behavior of the material by observing the flame spread along the specimen. Flame spread and smoke developed index are reported. However, there is not necessarily a relationship between these two measurements.

Sample Preparation:

Prior to testing, the specimen was conditioned to constant weight at a temperature of $73 \pm 5^\circ\text{F}$ ($23 \pm 3^\circ\text{C}$) and a relative humidity of $50 \pm 5\%$.

The test specimen consisted of a total of 12 sections of material. The sections were butted together during testing to form the requisite specimen length.

Test Procedure:

The tunnel is preheated to 150°F , as measured by the floor-embedded thermocouple located 23.25 feet downstream of the burner ports, and allowed to cool to 105°F , as measured by the floor-embedded thermocouple located 13 feet from the burners. At this time the tunnel lid is raised and the test sample is placed along the ledges of the tunnel so as to form a continuous ceiling 24 feet long, 12 inches above the floor. The lid is then lowered into place.

Upon ignition of the gas burners, the flame spread distance is observed and recorded every 15 seconds. Flame spread distance versus time is plotted ignoring any flame front recessions. If the area under the curve (A) is less than or equal to 97.5 min·ft, $\text{FSI} = 0.515 \cdot A$; if greater, $\text{FSI} = 4900/(195-A)$. Smoke developed is determined by comparing the area under the obscuration curve for the test sample to that of inorganic reinforced cement board and red oak, arbitrarily established as 0 and 100, respectively.

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



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Sample Information:

Thickness: Approximately 20 mm

Exposure Face: Smooth Face

Test Results:

Sample	Flame-Spread Index (FSI)	Smoke-developed Index (SDI)
Synthetic Quartz	10	60

Observations of Burning Characteristics:

Flame Front: 4.0 feet maximum.

Time To Maximum Spread: 570 seconds.

Test Duration: 10 minutes.

Rating:

The National Fire Protection Association Life Safety Code 101, "Interior Wall and Ceiling Finish Classification", has a means of classifying materials with respect to Flame Spread and Smoke Developed when tested in accordance with ASTM E 84, Standard Test Method for Surface Burning Characteristics of Building Materials, or ANSI/UL 723, Standard for Test for Surface Burning Characteristics of Burning Materials.

The classifications are as follows:

	<u>Flame-Spread Index (FSI)</u>	<u>Smoke-developed Index(SDI)</u>
Class A	0 - 25	0 - 450
Class B	26 - 75	0 - 450
Class C	76 - 200	0 - 450

Conclusion:

Refer to the National Fire Protection Association Life Safety Code 101, "Interior Wall and Ceiling Finish Classification", the submitted sample met the requirement of Class A.

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



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Graphical Results:

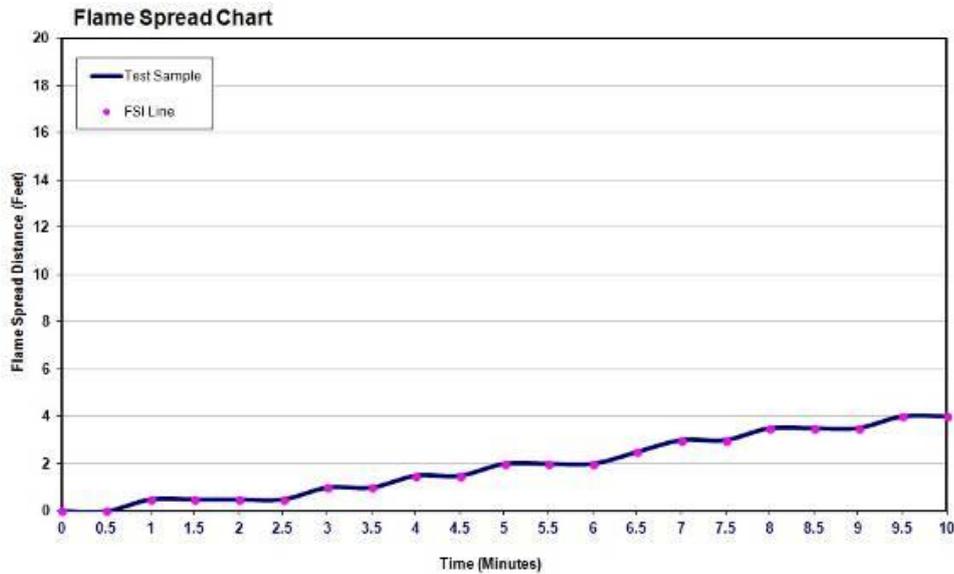


Figure 1. Flame Spread Chart

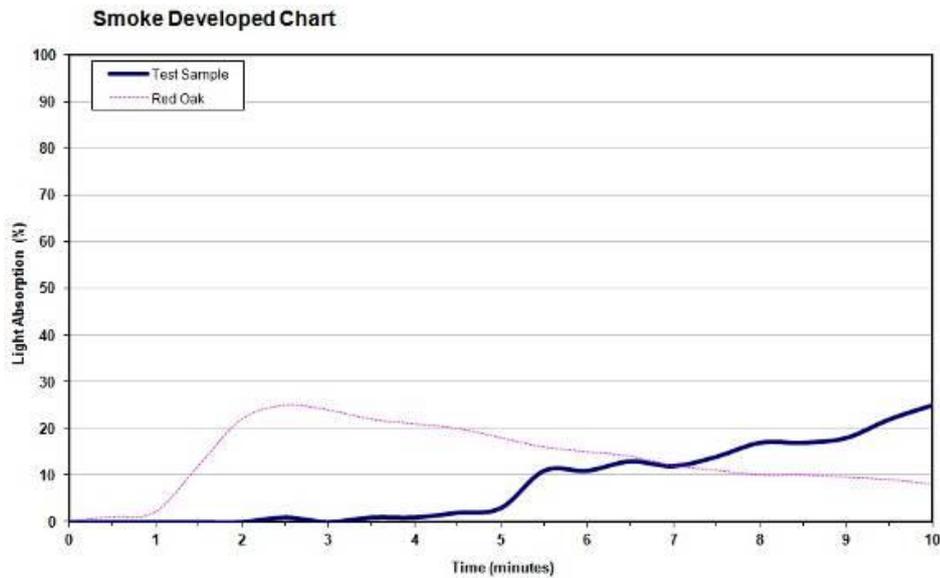


Figure 2. Smoke Developed Chart

Note: The test was carried out by a SGS internal laboratory.

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



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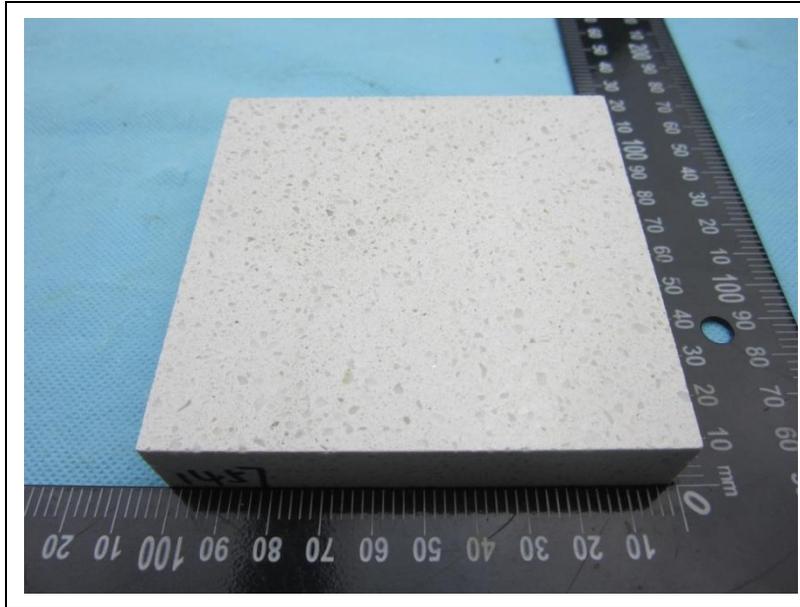
TEST REPORT

No. : XMCCM151201457

Date : Jan.26, 2016

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Specimen photograph:



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



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