



# TEST REPORT

No. : XMCCM160901256

Date : Sep.27, 2016

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XIAMEN YEYANG IMP&EXP CO., LTD  
ROOM 1835/37, NO.863, XIAHE ROAD, SIMING DISTRICT, XIAMEN

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

Sample Name : CARRARA VENATO  
Kind of Stone : ARTIFICIAL QUARTZ STONE  
Test Required : Selected test(s) as requested by applicant  
Date of Receipt : Sep.18, 2016  
Test Period : Sep.18, 2016 to Sep.27, 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 (Xiamen) Construction Material Laboratory

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## Summary of test results: (Average of results)

Test item(s)	Test method(s)	Test result(s)
Absorption by weight	Refer to ASTM C97/C97M-15	0.02%
Density		2293 kg/m <sup>3</sup>
Mohs' hardness (polished)	Refer to EN 101:1991	No scratch: 7 Scratch: 8 Mohs' hardness:7
Compressive strength	Refer to ASTM C170/C170M-16	Dry condition: 253 MPa
		Wet condition: 255 MPa
Stain resistance test (polished)	Refer to ANSI Z124.6-2007	Total stain resistance value:46 Maximum individual depth of staining: 0.06mm
Chemical resistance test (polished)	Refer to ANSI Z124.6-2007	Unaffected

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



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## 1. Absorption by weight and density

### **Test Method:**

Refer to ASTM C97/C97M-15 Standard Test Methods for Absorption and Bulk Specific Gravity of Dimension Stone

Specimens: artificial stone with one face polished, 50mm×50mm×21mm, 5pcs

### **Test Result:**

Specimens identification No.	1	2	3	4	5
Absorption by weight (%)	0.02	0.02	0.02	0.02	0.02
Mean water absorption (%)	0.02				
Density (kg/m <sup>3</sup> )	2296	2291	2293	2291	2296
Mean density (kg/m <sup>3</sup> )	2293				

## 2. Mohs' hardness

### **Test Method:**

Refer to EN 101:1991 Ceramic tiles: determination of scratch hardness of surface according to Mohs

Specimens: artificial stone with one face polished, 100mm×100mm×21mm, 3pcs

Testing surface: polished

### **Test Result:**

Specimens identification No.	1	2	3
No scratch	7	7	7
Scratch	8	8	8
Mohs' hardness	7		

Scale:

1- Talc; 2- Gypsum; 3- Calcite; 4- Fluorspar; 5- Apatite; 6- Feldspar; 7- Quartz; 8- Topaz; 9- Corundum; 10- Diamond.

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



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### 3. Compressive strength

#### **Test Method:**

Refer to ASTM C170/C170M-15b Standard Test Method for Compressive Strength of Dimension Stone

Specimens: artificial stone with one face polished, 50mm×50mm×21mm, 10pcs

#### **Test Result:**

Dry Condition:

Specimens identification No.	1	2	3	4	5
Individual compressive strength value (MPa)	259	250	247	258	249
Mean compressive strength value (MPa)	253				
Standard deviation(MPa)	6				

Wet Condition:

Specimens identification No.	1	2	3	4	5
Individual compressive strength value (MPa)	257	254	252	259	255
Mean compressive strength value (MPa)	255				
Standard deviation(MPa)	3				

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



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## 4. Stain resistance test

### Test Method:

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

Specimens: artificial stone with one face polished, 100mm×100mm×21mm, 11 pcs

Testing surface: polished

### Test Result:

Reagents	Test results			
	(Covered)		(Uncovered)	
	Individual stain rating	Depth removed	Individual stain rating	Depth removed
Black Crayon	3	/	3	/
Black Liquid Shoe Polish	4	/	3	/
Blue Washable Ink	1	/	1	/
Gentian Violet Solution	2	/	2	/
Beet Juice	1	/	1	/
Grape Juice	1	/	1	/
Lipstick	2	/	1	/
Hair Dye	5	0.02mm	4	/
Iodine solution	5	0.06mm	4	/
Wet Tea Bag	1	/	1	/
Total stain resistance rating	46			
Maximum individual depth of staining	0.06mm			

Note: According to ANSI Z124.6-2007 - 5.2.1.1~5.2.1.5, total stain resistance rating shall be ≤ 64 and maximum individual depth of staining shall be 0.127mm. Individual stain rating as below:

- 1 - non-staining, removable by tap water;
- 2 - removable by alcohol or naphtha;
- 3 - removable by first application of standard scouring powder;
- 4 - removable by two standard scouring powder scrubbing;
- 5 - Any specimen with stain remaining after the aforementioned cleanings.

Any specimen with stain remaining after the above cleanings shall be tested to determine the depth of staining. The affected area shall be sanded with 600 grit abrasive until the stain is removed. The depth shall be measured.

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



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5. Chemical resistance test

**Test Method:**

Refer to ANSI Z124.6-2007 Plastic Sinks - 5.5 Chemical resistance test

Specimens: artificial stone with one face polished, 100mm×100mm×21mm, 15pcs

Testing surface: polished

**Test Result:**

Reagents	Test results	
	(covered)	(uncovered)
Naphtha	Unaffected	Unaffected
Ethyl alcohol	Unaffected	Unaffected
Amyl acetate	Unaffected	Unaffected
Commercial household ammonia (10% V/V)	Unaffected	Unaffected
Citric acid (10%)	Unaffected	Unaffected
Urea (6%)	Unaffected	Unaffected
Hydrogen peroxide solution (3%)	Unaffected	Unaffected
Concentrated sodium hypochlorite solution (effective chlorine ≥8%)	Unaffected	Unaffected
Toluene	Unaffected	Unaffected
Ethyl acetate	Unaffected	Unaffected
Lye solution (2% sodium hydroxide)	Unaffected	Unaffected
Acetone	Unaffected	Unaffected
Trisodium phosphate (5%)	Unaffected	Unaffected
Vinegar	Unaffected	Unaffected
Pine oil	Unaffected	Unaffected

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



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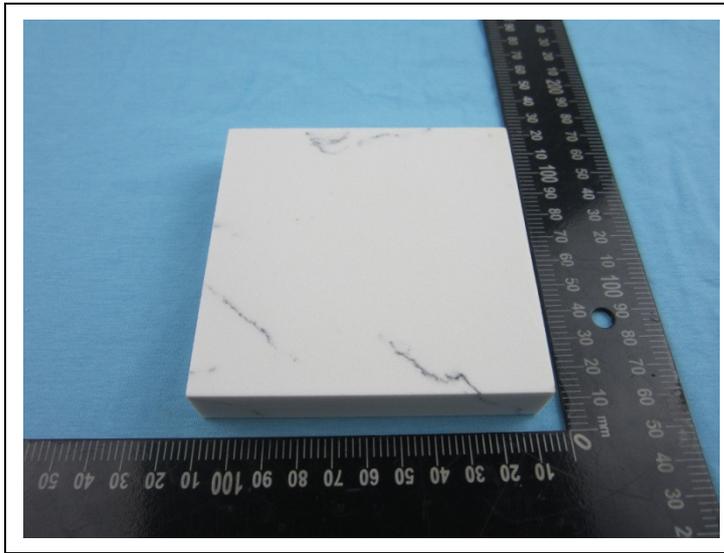
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\*\*\*\*\*End of report\*\*\*\*\*



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