

TEST REPORT

No. : XMCCM160700990

Date : Jul.26, 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 : SOLID WHITE
Kind of Stone : ARTIFICIAL QUARTZ STONE
Test Required : Selected test(s) as requested by applicant
Date of Receipt : Jul.18, 2016
Test Period : Jul.18, 2016 to Jul.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 Commercial 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	0.03%
Density		2304 kg/m ³
Mohs' hardness (polished)	Refer to EN 101:1991	No scratch: 7 Scratch: 8 Mohs' hardness:7
Compressive strength	Refer to ASTM C170/C170M-15b	Dry condition: 243 MPa
		Wet condition: 256 MPa
Stain resistance test (polished)	Refer to ANSI Z124.6-2007	Total stain resistance value:45 Maximum individual depth of staining: 0.08mm
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 two faces polished, 50mm×50mm×19mm, 5pcs

Test Result:

Specimens identification No.	1	2	3	4	5
Absorption by weight (%)	0.03	0.03	0.03	0.04	0.03
Mean water absorption (%)	0.03				
Density (kg/m ³)	2320	2300	2300	2299	2300
Mean density (kg/m ³)	2304				

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 two faces polished, 100mm×100mm×19mm, 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 two faces polished, 50mm×50mm×19mm, 10pcs

Test Result:

Dry Condition:

Specimens identification No.	1	2	3	4	5
Individual compressive strength value (MPa)	240	243	249	245	239
Mean compressive strength value (MPa)	243				
Standard deviation(MPa)	5				

Wet Condition:

Specimens identification No.	1	2	3	4	5
Individual compressive strength value (MPa)	257	256	259	254	254
Mean compressive strength value (MPa)	256				
Standard deviation(MPa)	3				

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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 two faces polished, 100mm×100mm×19mm, 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	2	/	2	/
Blue Washable Ink	1	/	1	/
Gentian Violet Solution	3	/	2	/
Beet Juice	1	/	1	/
Grape Juice	1	/	1	/
Lipstick	1	/	1	/
Hair Dye	5	0.04mm	5	0.02mm
Iodine solution	5	0.08mm	5	0.06mm
Wet Tea Bag	1	/	1	/
Total stain resistance rating	45			
Maximum individual depth of staining	0.08mm			

Note: the requirement of ANSI Z124.6-2007 for total stain resistance rating shall be ≤ 64 and maximum individual depth of staining shall be 0.127mm.

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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 two faces polished, 100mm×100mm×19mm, 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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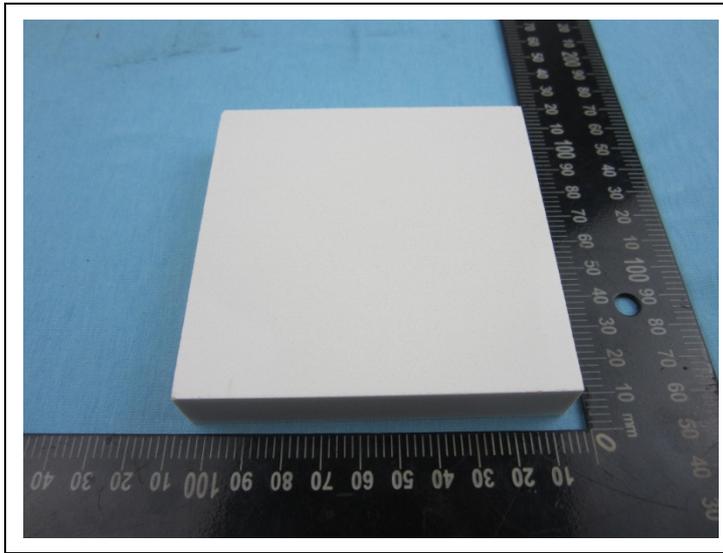
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Specimen photograph:



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