

No.: XMCCM150300207

Date: Mar.11, 2015

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BENYEE TECHNOLOGY HOLDING CO., LTD

PU AN INDUSTRIAL AREA, QUANGANG DISTRICT, QUANZHOU CITY, FUJIAN PROVINCE, P.R.CHINA

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

Sample Name : QUARTZ SURFACES

BENYEE TECHNOLOGY HOLDING CO., LTD Manufacturer

Test required Selected test(s) as requested by applicant

Date of Receipt Mar.03, 2015

Test Period Mar.03, 2015 to Mar.11, 2015

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



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Summary of test results: (Average of results)

Test items	Test methods	Test results
Absorption by weight	A C.T.M. CO.Z./CO.Z.M. OO	0.07 %
Density	- ASTM C97/C97M-09	2370 kg/m ³
Compressive etraneth	ASTM C170/C170M-14a	Dry condition: 216 MPa
Compressive strength	A31W C170/C170W-14a	Wet condition: 218 MPa
Maha' hardhaga (nalighad)	EN 101:1001	No Scratch: 5
Mohs' hardness (polished)	EN 101:1991	Scratch: 6
Load Test	ANSI Z124.6-2007	No damage Average residual deflection: -0.01mm
Stain resistance test(polished)	ANSI Z124.6-2007	Total stain resistance value: 37 Maximum individual depth of staining: 0.02mm
Chemical resistance test(polished)	ANSI Z124.6-2007	Unaffected.
Cigarette test(polished)	ANSI Z124.6-2007	After test, there were visible stains remains which can be restorable by clean cheesecloth and water.
Heated pan test(polished)	ANSI Z124.6-2007	No visible change after test

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



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1. Absorption by weight and density

Test Method:

ASTM C97/C97M-09 Standard Test Methods for Absorption and Bulk Specific Gravity of Dimension Stone Specimens: artificial stone with one face polished, 50mm×50mm×20mm, 5pcs

Test Result:

Specimens identification No.	1	2	3	4	5
Absorption by weight (%)	0.07	0.07	0.07	0.07	0.07
Mean water absorption (%)			0.07		
Density (kg/m³)	2370	2370	2370	2370	2370
Mean density (kg/m³)			2370		

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



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2. Compressive strength

Test Method:

ASTM C170/C170M-14a Standard Test Method for Compressive Strength of Dimension Stone Specimens: artificial stone with one face polished, 20pcs, two samples 50mm×50mm×20mm were overlaid to form one specimen 50mm×50mm×40mm.

Test Result:

Dry Condition:

Specimens identification No.	1	2	3	4	5
Individual compressive strength value (MPa)	216	213	221	218	214
Mean compressive strength value (MPa)			216		
Standard deviation (MPa)			4		

Wet Condition:

Specimens identification No.	1	2	3	4	5
Individual compressive strength value (MPa)	217	224	225	214	212
Mean compressive strength value (MPa)	218				
Standard deviation (MPa)			6		

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



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3. Mohs' hardness

Test Method:

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

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

Testing surface: polished

Test Result:

Specimens identification No.	1	2	3
No Scratch	5	5	5
Scratch	6	6	6

Scale:

- 1- Talc
- 2- Gypsum
- 3- Calcite
- 4- Flourite
- 5- Apatite 6- Microcline
- 7- Quartz
- 8- Topaz
- 9- Corundum
- 10- Diamond

4. Load test

Test Method:

ANSI Z124.6-2007 Plastic Sinks - 4.3 Load test

Specimens: artificial stone with one face polished, 813mm×660mm×20mm, 2pcs

Test Result:

After test, there were no damage in the surface

Titol toot, there he damage in the cartage.				
No.	1	2	Average value(mm)	
Residual deflection (mm)	0.01	0.01	0.01	

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5. Stain resistance test

Test Method:

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

Specimens: artificial stone with one face polished, 100mm×100mm×20mm, 10pcs

Testing surface: polished

Test Result:

	Test results				
Reagents	(Cove	ered)	(Uncovered)		
	Individual stain rating	Depth removed	Individual stain rating	Depth removed	
Black Crayon	1	/	1	/	
Black Liquid Shoe Polish	2	/	2	/	
Blue Washable Ink	3	/	3	/	
Gentian Violet Solution	4	/	5	0.02 mm	
Beet Juice	1	/	1	/	
Grape Juice	1	/	1	/	
Lipstick	2	/	2	/	
Hair Dye	2	/	2	/	
lodine solution	1	/	1	/	
Wet Tea Bag	1	/	1	/	
Total stain resistance rating	37				
Maximum individual depth of staining	0.02 mm				

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6. Chemical resistance test

Test Method:

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

Specimens: artificial stone with one face polished, 100mm×100mm×20mm, 15pcs

Testing surface: polished

Test Result:

Б	Test results		
Reagents	(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	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	

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7. 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 remains which can be restorable by clean cheesecloth and water.

8. Heated pan test

Test Method:

ANSI Z124.6-2007 Plastic Sinks - 5.6 Heated pan test

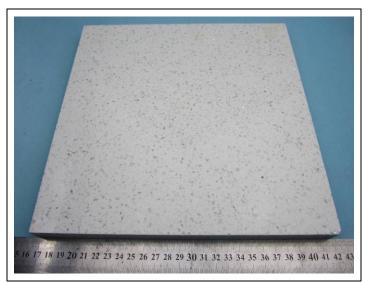
Specimens: artificial stone with one face polished, 250mm×250mm×20mm, 2pcs

Testing surface: polished

Test Result:

After test, both the two samples were no visible blister, crazing, or color change in the surface.

Specimen photograph:



SGS authenticate the photo on original report only ********End of report**



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