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XIAMEN EXCELLENT STONE CO., LTD YONGQUANSHAN INDUSTRIAL ZONE, SHUITOU TOWN, FUJIAN, CHINA

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

| Sample Name | : | MIDDLE CARRARA |
|-----------------|---|--|
| Test Required | : | Selected test(s) as requested by applicant |
| Date of Receipt | : | Aug.25, 2016 |
| Test Period | : | Aug.25, 2016 to Sep.02, 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



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邮编:361101 t (86-592) 5765857

f (86-592) 5765380

e sgs.china@sgs.com



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Summary of test results:

(Average of results)

| Test item(s) | Test method(s) | Test result(s) |
|--|------------------------------|--|
| Absorption by weight | Defende ACTM COZ/COZM 15 | 0.03% |
| Density | Refer to ASTM C97/C97M-15 | 2287 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: 234 MPa |
| | | Wet condition: 221 MPa |
| Stain resistance test (polished) | Refer to ANSI Z124.6-2007 | Total stain resistance value:56 Maximum individual depth of staining: 0.04mm |
| 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×20mm, 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) | 2288 | 2288 | 2288 | 2286 | 2287 |
| Mean density (kg/m ³) | | | 2287 | | |

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×20mm, 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.



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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×20mm, 10pcs

Test Result:

Dry Condition:

| Specimens identification No. | 1 | 2 | 3 | 4 | 5 |
|---|-----|-----|-----|-----|-----|
| Individual compressive strength value (MPa) | 253 | 231 | 229 | 230 | 227 |
| Mean compressive strength value (MPa) | 234 | | | | |
| Standard deviation(MPa) | | | 11 | | |

Wet Condition:

| Specimens identification No. | 1 | 2 | 3 | 4 | 5 |
|---|-----|-----|-----|-----|-----|
| Individual compressive strength value (MPa) | 225 | 223 | 219 | 219 | 217 |
| Mean compressive strength value (MPa) | | | 221 | | |
| Standard deviation(MPa) | | | 4 | | |

******** 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×20mm, 11pcs Testing surface: polished

Test Result:

| | Test results | | | | |
|--------------------------------------|-------------------------|------------------|-------------------------|------------------|--|
| Reagents | (Cove | ered) | (Uncovered) | | |
| | Individual stain rating | Depth removed | Individual stain rating | Depth removed | |
| Black Crayon | 2 | / | 2 | / | |
| Black Liquid Shoe Polish | 5 | 0.02mm | 5 | 0.02mm | |
| Blue Washable Ink | 4 | / | 4 | / | |
| Gentian Violet Solution | 5 | 0.04mm | 5 | 0.02mm | |
| Beet Juice | 1 | / | 1 | / | |
| Grape Juice | 1 | / | 1 | / | |
| Lipstick | 2 | / | 2 | / | |
| Hair Dye | 2 | / | 2 | / | |
| lodine solution | 5 | 0.04mm | 5 | 0.02mm | |
| Wet Tea Bag | 1 | / | 1 | / | |
| Total stain resistance rating | 56 | | | | |
| Maximum individual depth of staining | 0.04mm | | | | |

Note: The requirement in ANSI Z124.6-2007 for total stain resistance rating shall be \leq 64 and maximum individual depth of staining shall be 0.127mm. According to clause 5.2.1.1~5.2.1.5, summary of 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 scrubbings;
- 5 Any specimen with stain remaining after the aforementioned cleanings.

******** 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×20mm, 15pcs Testing surface: polished

Test Result:

| Descente | 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 (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%) | e (5%) Unaffected Unaffected | | | |
| Vinegar | Unaffected | Unaffected | | |
| Pine oil Unaffected Unaffe | | Unaffected | | |

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

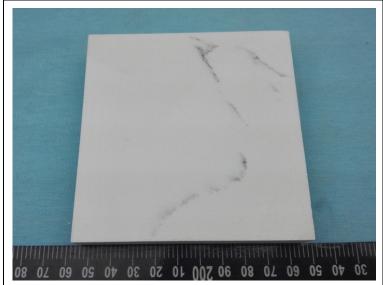


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Specimen photograph:



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



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