

## TEST REPORT

No. : XMIN2011011260CM

Date : Dec 04, 2020

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scan to see the report



XMIN2011011260CM

CUSTOMER NAME: XIAMEN YINXIANG QUARTZ & STONE CO.,LTD  
ADDRESS: ROOM 19A06, OCEAN BUILDING, 268 LUJIANG ROAD, SIMING DISTRICT, XIAMEN

Sample Name : ARTIFICIAL MARBLE  
Manufacturer : HEZHOU HEYUAN POWDER DEVELOPMENT CO.,LTD  
JUNCTION OF FU YE ROAD AND ZHONG WANG AVENUE, WANG GAO INDUSTRIAL ZONE, PINGGUI DISTRICT, HEZHOU

Above information and sample(s) was/were submitted and confirmed by the client. SGS, however, assumes no responsibility to verify the accuracy, adequacy and completeness of the sample information provided by client.

\*\*\*\*\*

Date of Receipt : Nov 17, 2020  
Testing Start Date : Nov 17, 2020  
Testing End Date : Nov 23, 2020  
Test result(s) : For further details, please refer to the following page(s)  
(Unless otherwise stated the results shown in this test report refer only to the sample(s) tested)

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

Civi Huang  
Authorized signatory



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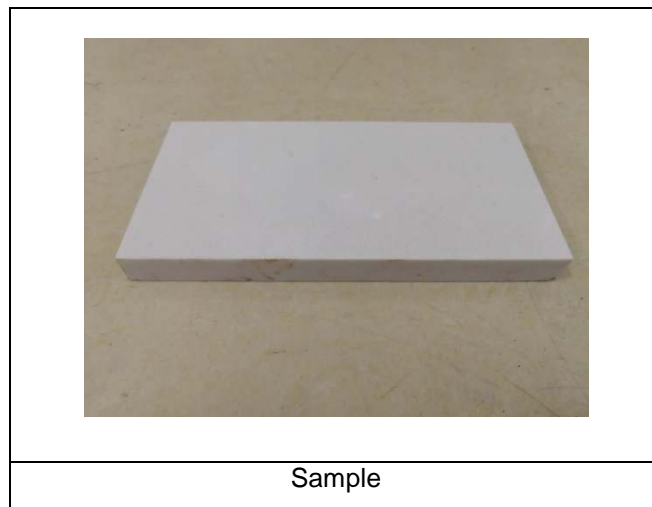
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Summary of Results:

No.	Test Item	Test Method	Result
1	Abrasion Resistance	Refer to ASTM C241/C241M-15 <sup>ε1</sup>	16
2	Flexural Strength	Refer to ASTM C880/C880M-18	Dry Condition: 26.2MPa Wet Condition: 33.9MPa
3	Compressive Strength	Refer to ASTM C170/C170M-17	Dry Condition: 132MPa Wet Condition: 126MPa
4	Absorption by weight and Density	Refer to ASTM C97/C97M-18	Density:2588kg/m <sup>3</sup> Absorption:0.03%
5	Modulus of Rupture	Refer to ASTM C99/C99M-18	Dry Condition: 35.7MPa Wet Condition: 42.3MPa

Original Sample Photo:



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1. Test Item: Abrasion Resistance

Sample Description: See photo(s)

Test Method: Refer to ASTM C241/C241M-15<sup>e1</sup>

Test Condition:

Specimen: 50mm×50mm×18mm, 3pcs

Condition: Dry in an oven at 60±2°C for 48h → Cool them to room temperature in a desiccator →

Abrasion resistance test → Immerse in distilled water at 22±2°C for 1h

Load: 2000g

Revolutions: 225

Testing surface: polished

Test Result:

Specimen No.	1	2	3
Abrasion resistance, H <sub>a</sub>	16	15	18
Mean abrasion resistance, H <sub>a</sub>	16		



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2.Test Item: Flexural strength

Sample Description: See photo(s)

Test Method: Refer to ASTM C880/C880M-18

Test Condition:

Specimen: 350mm×100mm×18mm, 10pcs

Dry Condition: Dry in an oven at 60±2°C for 48h→Cool them to room temperature in a desiccator

Wet Condition: Immerse in distilled water at 22±2°C for 48h

Support Span: 180mm

Testing speed: 4.0MPa/min

Test Result:

Dry Condition:

Specimen No.	1	2	3	4	5
Individual flexural strength value (MPa)	28.4	27.0	27.8	20.6	27.4
Mean flexural strength value (MPa)	26.2				
Standard deviation (MPa)	3.2				

Wet Condition:

Specimen No.	1	2	3	4	5
Individual flexural strength value (MPa)	34.4	33.8	34.4	34.0	32.9
Mean flexural strength value (MPa)	33.9				
Standard deviation (MPa)	0.7				



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3.Test Item: Compressive Strength

Sample Description: See photo(s)

Test Method: Refer to ASTM C170/C170M-17

Test Condition:

Specimen: 50mm×50mm×18mm, 10pcs

Dry Condition: Dry in an oven at 60±2°C for 48h→Cool them to room temperature in a desiccator

Wet Condition: Immerse in distilled water at 22±2°C for 48h

Testing speed: 0.5MPa/s

Test Result:

Dry Condition:

Specimen No.	1	2	3	4	5
Individual compressive strength value (MPa)	131	158	132	117	120
Mean compressive strength value (MPa)	132				
Standard deviation (MPa)	17				

Wet Condition:

Specimen No.	1	2	3	4	5
Individual compressive strength value (MPa)	125	126	128	119	130
Mean compressive strength value (MPa)	126				
Standard deviation (MPa)	5				



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4. Test Item: Absorption by weight and density

Sample Description: See photo(s)

Test Method: Refer to ASTM C97/C97M-18

Test Condition:

Specimen: 50mm×50mm×18mm, 5pcs

Condition: Dry in an oven at 60±2°C for 48h → Cool them to room temperature in a desiccator →

Immerse in distilled water at 22±2°C for 48h

Test Result:

Specimen No.	1	2	3	4	5
Absorption by weight (%)	0.02	0.02	0.03	0.03	0.04
Mean water absorption (%)	0.03				
Standard deviation (%)	0.01				
Density (kg/m <sup>3</sup> )	2587	2588	2588	2588	2587
Mean density (kg/m <sup>3</sup> )	2588				
Standard deviation (kg/m <sup>3</sup> )	1				



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5. Test Item: Modulus of rupture

Sample Description: See photo(s)

Test Method: Refer to ASTM C99/C99M-18

Test Condition:

Specimen: 200mm×100mm×17mm, 10pcs

Dry Condition: Dry in an oven at 60±2°C for 48h→Cool them to room temperature in a desiccator

Wet Condition: Immerse in distilled water at 22±2°C for 48h

Support Span: 180mm

Testing speed: 5000N/min

Test Result:

Dry Condition:

Specimen No.	1	2	3	4	5
Individual modulus of rupture value (MPa)	35.3	36.5	34.2	35.0	37.4
Mean modulus of rupture value (MPa)	35.7				
Standard deviation (MPa)	1.3				

Wet Condition:

Specimen No.	1	2	3	4	5
Individual modulus of rupture value (MPa)	43.5	42.3	42.8	40.7	42.0
Mean modulus of rupture value (MPa)	42.3				
Standard deviation (MPa)	1.1				

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



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