

TEST REPORT

No. : XMIN2109010184CM

Date : Nov 08, 2021

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scan to see the report



XMIN2109010184CM

CUSTOMER NAME: ZHONG DE BUILDING MATERIAL TECHNOLOGY INDUSTRIES SDN.
BHD.

ADDRESS: LOT 77-83, JALAN INDUSTRI SEMAMBU 9, SEMAMBU INDUSTRIAL
ESTATE, 25350 KUANTAN, PAHANG DARUL MAKMUR, MALAYSIA.

Sample Name : QUARTZ STONE
Material : QUARTZ STONE
Product Specification : 3200x1600x30mm
3200x1600x20mm
3200x1600x18mm
3200x1600x15mm

Manufacturer : ZHONG DE BUILDING MATERIAL TECHNOLOGY INDUSTRIES SDN.
BHD.

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.

SGS Ref No : GZIN2110060886MR; TJIN2110017005MR
Date of Receipt : Sep 14, 2021
Testing Start Date : Sep 14, 2021
Testing End Date : Nov 08, 2021
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



SGS-CSTC Standards Technical Services Co., Ltd.
Xiamen Branch Testing Center Commercial Construction Material Laboratory

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Summary of Results:

No.	Test Item	Test Method	Result
1	Abrasion Resistance	Refer to ASTM C241/C241M-20	Ha: 68
2	Flexural Strength	Refer to ASTM C880/C880M-18	Dry Condition: 46.7 MPa Wet Condition: 57.2 MPa
3	Gloss	ASTM D523-14(2018)	40.0
4	Compressive Strength	Refer to ASTM C170/C170M-17	Dry Condition: 227 MPa Wet Condition: 224 MPa
5	High temperature resistance test	Refer to NEMA LD-3-2005 Section 3.6.2	No effect
6	Surface Frictional Properties	ASTM E303-93(2013)	BPN "wet": 18
7	Absorption by weight and density	Refer to ASTM C97/C97M-18	Absorption: 0.06 % Density: 2373 kg/m ³
8	Modulus of Rupture	Refer to ASTM C99/C99M-18	Dry Condition: 56.3 MPa Wet Condition: 66.0 MPa
9	Stain Resistance Test	Refer to ANSI Z124.6-2007 Section 5.2	Stain resistance total rating: 48; The maximum stain depth: 0.05mm
10	Frost Resistance	Refer to ASTM C1026-13(2018)	No visible damage
11	Moh's Hardness	Refer to EN 101:1991	7
12	Thermal expansion	Refer to ASTM C531-18	36.0×10 ⁻⁶ /°C
13	Water absorption	Refer to ASTM C373-18	0.00%
14	Density*	ASTM D792-20 Method B	2.37g/cm ³
15	Flexural Strength*	ASTM D790-17 Procedure A	47.9MPa



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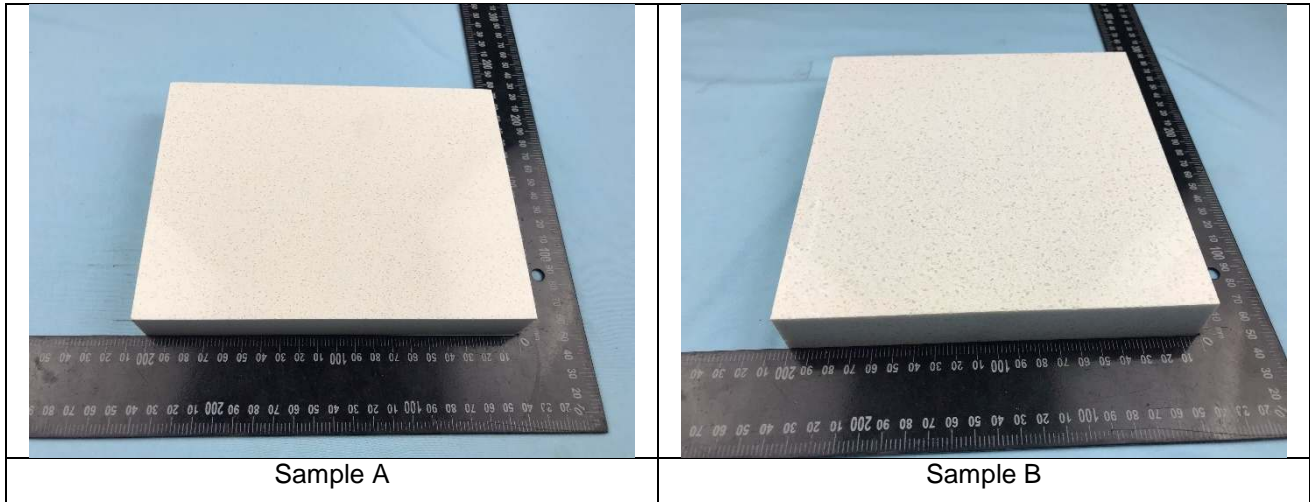
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No.	Test Item	Test Method	Result
16	Rockwell Hardness*	ASTM D785-08(2015) Procedure A	116 L
17	Coefficient of Linear Thermal Expansion*	With reference to ASTM D696-16 and client's requirement	See result
18	Radioactivity	GB 6566-2010	Internal exposure index I _{Ra} : <0.1 External exposure index I _γ : <0.1
19	Chemical Resistance Test	Refer to ANSI Z124.6-2007 Section 5.5	See result

Original Sample Photo:



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1. Test Item: Abrasion Resistance

Sample Description: Sample A, See photo

Test Method: Refer to ASTM C241/C241M-20

Test Condition:

Specimen: 50mm×50mm×30mm, 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
Abrasive hardness value, H _a	67	57	79
Mean abrasive hardness value, H _a	68		



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2. Test Item: Flexural strength

Sample Description: Sample A, See photo

Test Method: Refer to ASTM C880/C880M-18

Test Condition:

Specimen: 350mm×100mm×30mm, 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: 300mm

Testing speed: 4.0MPa/min

Test Result:

Dry Condition:

Specimen No.	1	2	3	4	5
Individual flexural strength value (MPa)	47.7	46.1	45.4	49.0	45.1
Mean flexural strength value (MPa)	46.7				
Standard deviation (MPa)	1.7				

Wet Condition:

Specimen No.	1	2	3	4	5
Individual flexural strength value (MPa)	56.5	58.8	57.9	55.9	57.0
Mean flexural strength value (MPa)	57.2				
Standard deviation (MPa)	1.2				



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3.Test Item: Gloss

Sample Description: Sample A, See photo

Test Method: ASTM D523-14(R2018)

Test Condition:

Geometry: 60°

Test Result:

Specimen No.	1	2	3	4	5
Gloss	40.5	40.7	41.4	38.0	39.5
Mean value	40.0				



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4. Test Item: Compressive Strength

Sample Description: Sample A, See photo

Test Method: Refer to ASTM C170/C170M-17

Test Condition:

Specimen: 50mm×50mm×30mm, 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)	224	227	230	228	225
Mean compressive strength value (MPa)	227				
Standard deviation (MPa)	3				

Wet Condition:

Specimen No.	1	2	3	4	5
Individual compressive strength value (MPa)	225	226	226	221	220
Mean compressive strength value (MPa)	224				
Standard deviation (MPa)	3				



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5. Test Item: High temperature resistance test

Sample Description: Sample A, See photo

Test Method: Refer to NEMA LD-3-2005 Section 3.6.2

Test Condition:

Specimen: 200mm×200mm×30mm

Test procedure: ① Aluminum disk heated for 60±0.5min at 185℃ → ② Place the disk on the test area of the specimen and remain for 20±0.5min → ③ Remove the disk → ④ Room ambient temperature, 24h

Test Result:

No effect. There is no cracking, crazing or blistering on the surface.

Note:

- a. No effect – no change in color or surface finish.
- b. Slight effect – a change in color or surface finish only visible at certain angles or directions.
- c. Moderate effect – a change in color or surface finish visible from all angles and directions, but does not appreciably alter the original condition of the specimen.
- d. Severe effect – a change in color or surface finish which obviously and markedly alters the original condition of the specimen.

6. Test Item: Surface Frictional Properties

Sample Description: See photo

Test Method: ASTM E303-93(2013)

Test Condition:

Specimen: 200mm×150mm×30mm, 6pcs

Type of slider: Slider 57

Test surface: polished

Test Result:

Specimens identification No.	1	2	3	4	5	6
Mean pendulum value (Wet condition)	18	18	18	18	18	18
British Pendulum Number (BPN)	18					



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7. Test Item: Absorption by weight and density

Sample Description: Sample A, See photo

Test Method: Refer to ASTM C97/C97M-18

Test Condition:

Specimen: 50mm×50mm×30mm, 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 (%)	0.05	0.06	0.05	0.06	0.06
Mean water absorption (%)	0.06				
Standard deviation (%)	0.01				
Density (kg/m ³)	2373	2373	2373	2373	2373
Mean density (kg/m ³)	2373				
Standard deviation (kg/m ³)	0.00				



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8.Test Item: Modulus of rupture

Sample Description: Sample A, See photo

Test Method: Refer to ASTM C99/C99M-18

Test Condition:

Specimen: 200mm×100mm×30mm, 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)	48.9	56.1	59.7	56.7	60.1
Mean modulus of rupture value (MPa)	56.3				
Standard deviation (MPa)	4.5				

Wet Condition:

Specimen No.	1	2	3	4	5
Individual modulus of rupture value (MPa)	68.7	65.4	62.4	68.2	65.5
Mean modulus of rupture value (MPa)	66.0				
Standard deviation (MPa)	2.6				



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9. Test Item: Stain Resistance Test

Sample Description: Sample A, See photo

Test Method: Refer to ANSI Z124.6-2007 Section 5.2

Test Condition:

Specimen: 100mm×100mm×30mm

Test reagents: see table 1

Contact time: 16h

Test surface: See photo

Test Result:

Stain resistance total rating: 48 ; The maximum stain depth: 0.05mm

Table 1: Test result of stain resistance test

Reagent	Rating	
	Covered	Uncovered
Black crayon	3	3
Black liquid shoe polish	3	3
Blue washable Ink	2	2
Gentian violet solution	5(stain depth:0.02mm)	5(stain depth:0.03mm)
Beet juice	1	1
Grape juice	1	1
Lipstick	2	2
Hair dye	1	1
Iodine solution	5(stain depth:0.04mm)	5(stain depth:0.05mm)
Wet tea bag	1	1
Total rating	48 (The maximum stain depth: 0.05mm)	

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 (using 20 scrub cycles);
- 2- removable by alcohol or naphtha (using 20 scrub cycles);
- 3- removable by first application of standard scouring powder (using 20 scrub cycles);
- 4- removable by two standard scouring powder scrubblings (using an additional 40 scrub cycles);
- 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.



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10. Test Item: Frost Resistance

Sample Description: Sample A, See photo

Test Method: Refer to ASTM C1026-13(2018)

Test Condition:

Specimen: 100mm×100mm×30mm, 5pcs.

Test Result:

Freeze-Thaw Cycling: from -3°C in air (3 hours) to room temperature water (3 hours), 20cycles

Specimens subject to 20 cycles freeze/thaw resistance:

Specimens identification No.	1	2	3	4	5
Observations	No visible damage	No visible damage	No visible damage	No visible damage	No visible damage
Mass loss (%)	0.02	0.02	0.02	0.02	0.02
Mean mass loss (%)	0.02				



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11. Test Item: Mohs' Hardness

Sample Description: Sample A, See photo

Test Method: Refer to EN 101:1991

Test Condition:

Specimen: 100mm×100mm×30mm, 3pcs

Test surface: See photo

Test Result:

Specimen 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.

12. Test Item: Linear thermal expansion coefficient

Sample Description: Sample A, See photo

Test Method: Refer to ASTM C531-18

Test Condition:

Specimen: 250mm×25mm×30mm, 4pcs

High temperature: 100°C, 16h

Low temperature: 23°C, 16h

Test Result:

Specimen No.	1	2	3	4
Linear thermal expansion coefficient (10 ⁻⁶ /°C)	37.3	35.2	30.6	40.9
Mean value (10 ⁻⁶ /°C)	36.0			



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13. Test Item: Water absorption

Sample Description: Sample B, See photo

Test Method: Refer to ASTM C373-18

Test Condition:

Specimen: 200mm×200mm×30mm, 5pcs

Test Result:

Specimens No.	1	2	3	4	5	Mean value
Water absorption (%)	0.00	0.00	0.00	0.00	0.00	0.00

14. Test Item: Density*

Sample Description: Sample B, See photo

Test Method: ASTM D792-20 Method B

Test Condition:

Absolute alcohol, (23±0.5)°C

Lab Environmental Condition:(23±2)°C,(50±5)%RH

Test Result:

Test Item	Test Result
Density	2.37g/cm ³

Note:

1. Test specimens were cut from the sample.
2. The protected film of test specimens was ripped off before test.



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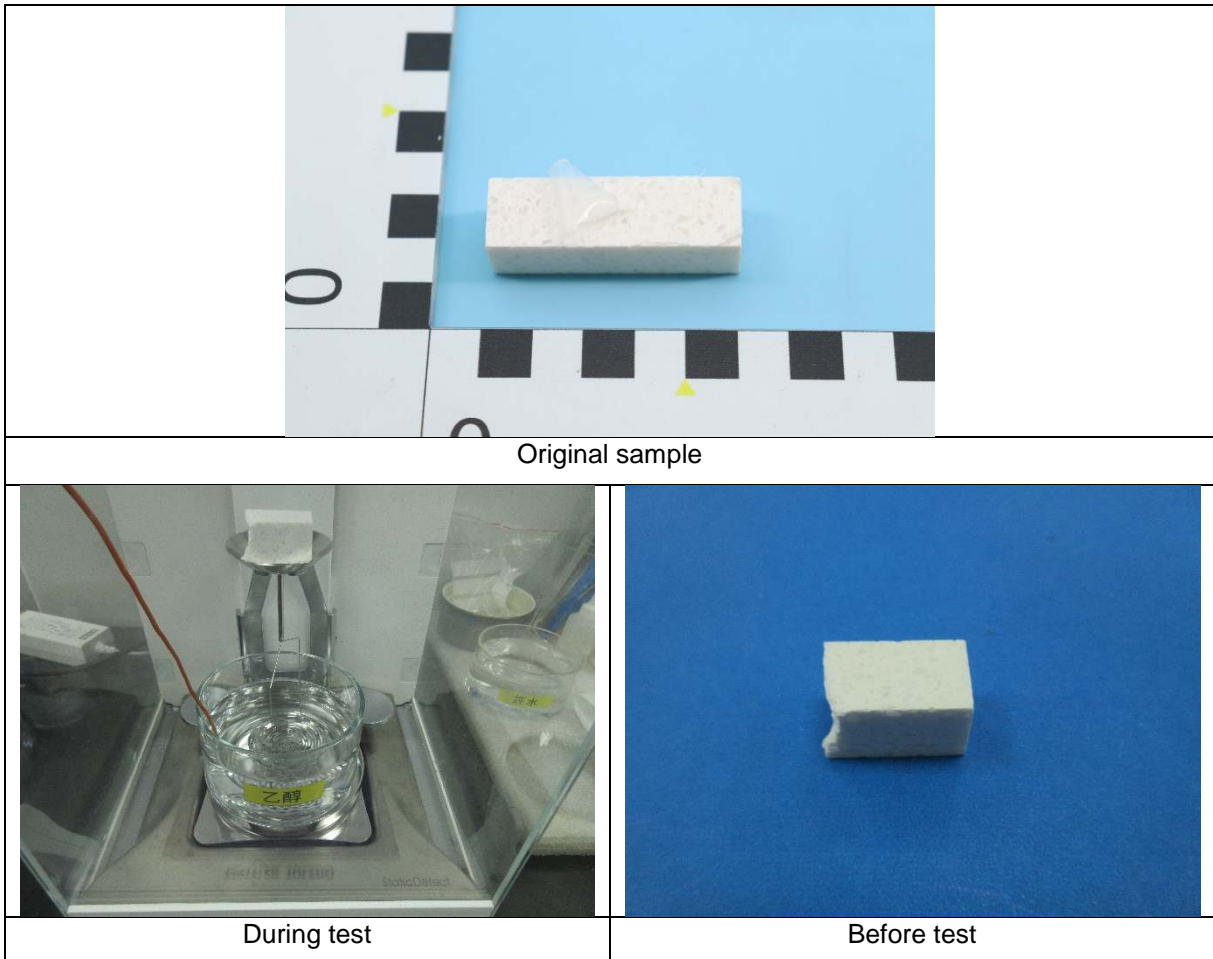
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15.Test Item: Flexural Strength*

Sample Description: Sample B, See photo

Test Method: ASTM D790-17 Procedure A

Test Condition:

Specimen: 200mm×12.7mm×9.93mm

Testing speed: 4.3mm/min

Span: 160mm

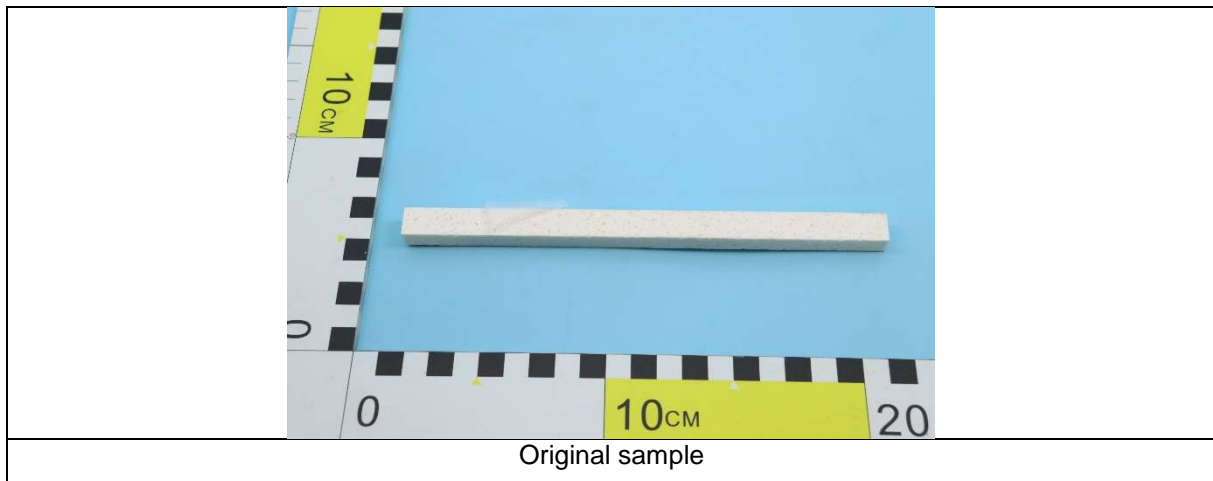
Lab Environmental Condition: (23±2)°C , (50±5)%RH

Test Result:

Test Item	Test Result
Flexural Strength	47.9MPa

Note: The protected film of test specimens was ripped off before test.

Test Photo:



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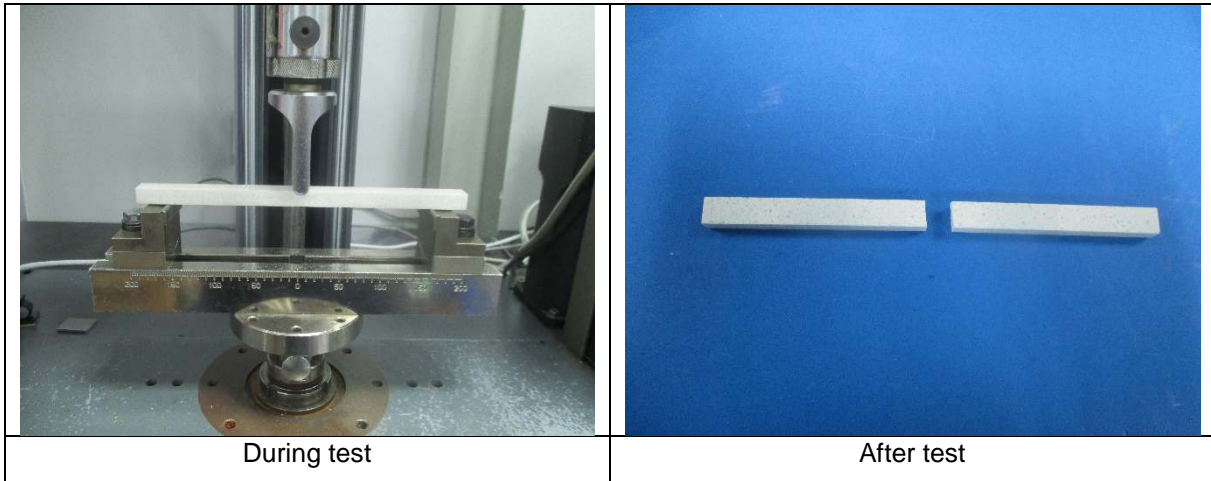
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16. Test Item: Rockwell Hardness*

Sample Description: Sample B, See photo

Test Method: ASTM D785-08(2015) Procedure A

Test Condition:

Specimen thickness: 31.11 mm

Lab Environmental Condition: (23±2)°C, (50±5)%RH

Test Result:

Test Item	Test Result
Rockwell Hardness	116 L

Note:

1. The protected film of test specimens was ripped off before test.
2. The tear film surface was tested.



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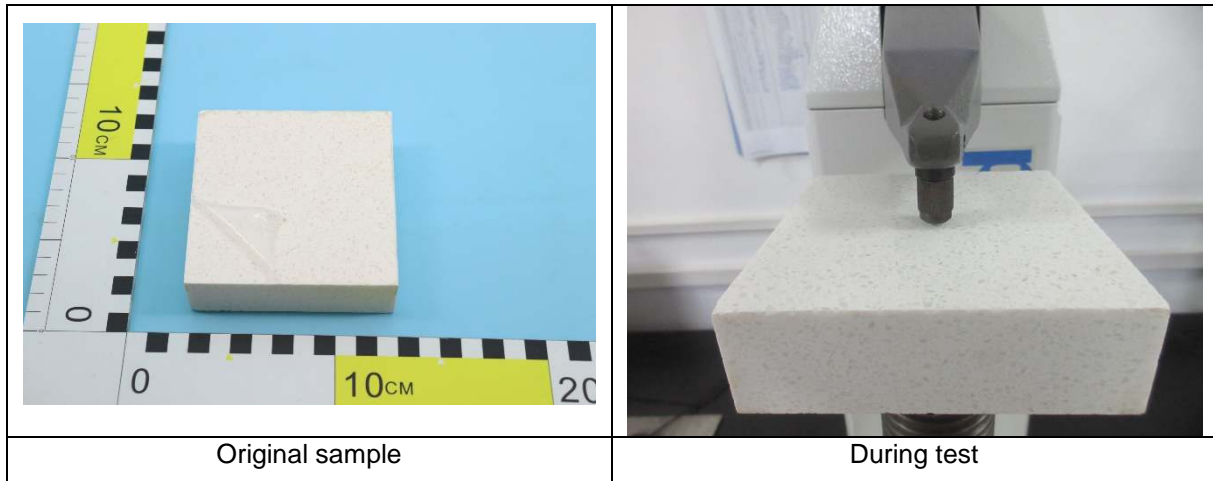
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Test Photo:



17. Test Item: Coefficient of Linear Thermal Expansion *

Sample Description: Sample B, See photo

Test Method: With reference to ASTM D696-16 and client's requirement

Specimens conditioning: 23±2°C, 50±10%RH, 40h

Test Condition:

Test temperature range: -30°C~30°C

Lab Environmental Condition: (23±2) °C, (50±5) %RH

Test Result:

Test Item	Test Result	
Coefficient of Linear Thermal Expansion	#1	10.630×10 ⁻⁶ /°C
	#2	10.740×10 ⁻⁶ /°C
	Average	10.685×10 ⁻⁶ /°C

Note:

1. Test specimens were cut from the sample.
2. The sample does not meet the standard requirements, and the results are for reference only.



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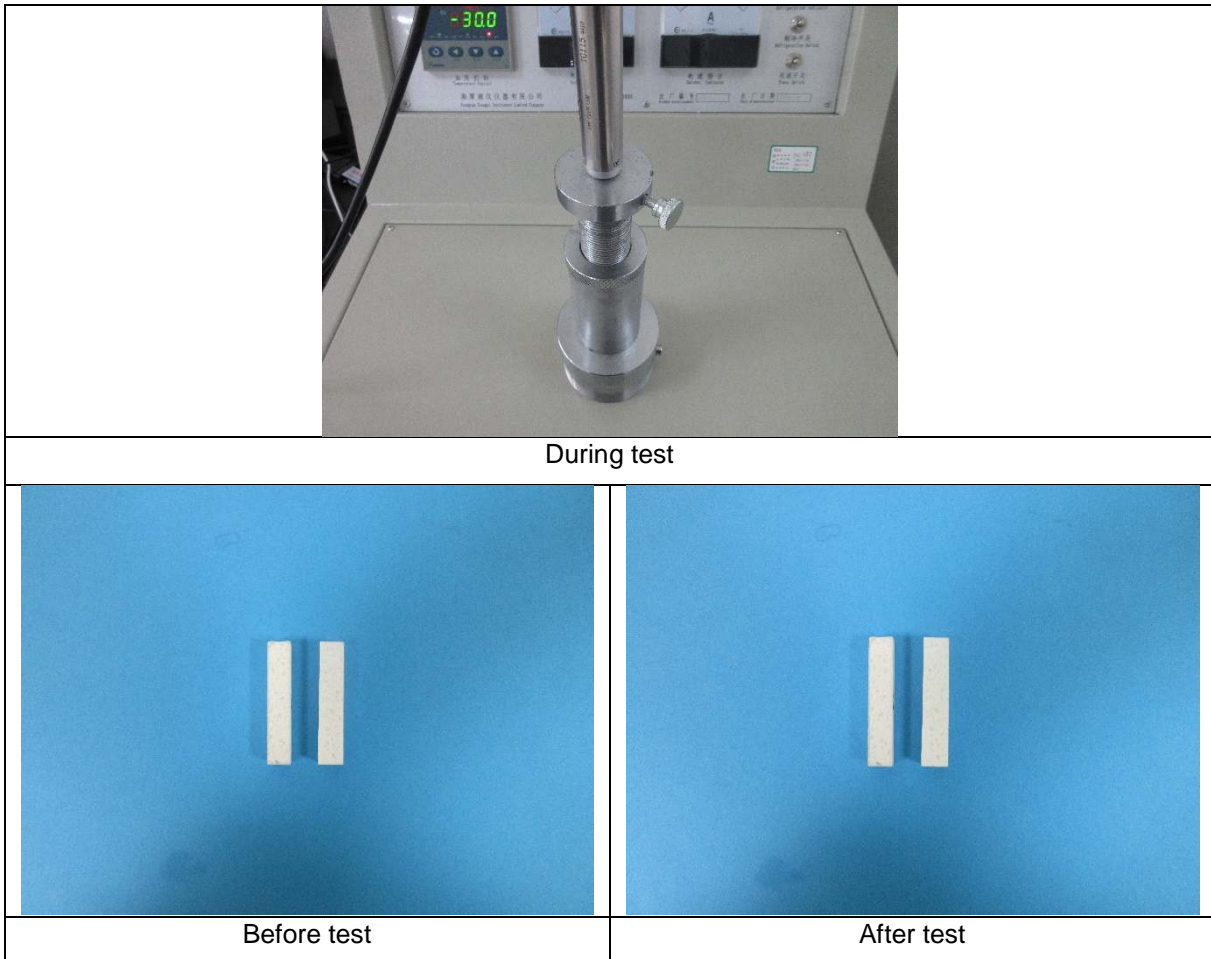
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Note: * test project/method was carried out by subcontractors.



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18. Test Item: Radioactivity

Sample Description: Sample B, See photo

Test Method: GB 6566-2010

Test Condition:

Specimen: Powder, made from original sample

Test Result:

Test items	GB 6566-2010 (Class A decorative materials)	Test Results
Internal exposure index I_{Ra}	≤ 1.0	<0.1
External exposure index I_{γ}	≤ 1.3	<0.1

Specific activity of the nuclides

Nuclides	Units	Specific activity
Ra-226	Bq/kg	0.6
Th-232		2.1
K-40		0.0

Note: The sample complies with requirements of GB 6566-2010 Class A decorative materials, it's unlimited in manufacture, selling and using.

Requirements of GB 6566-2010:

Main materials for building	Comply with $I_{Ra} \leq 1.0$, $I_{\gamma} \leq 1.0$ In case of hole rate >25%, it shall comply with $I_{Ra} \leq 1.0$, $I_{\gamma} \leq 1.3$
Decorative materials	Class A: Comply with $I_{Ra} \leq 1.0$, $I_{\gamma} \leq 1.3$
	Class B: Comply with $I_{Ra} \leq 1.3$, $I_{\gamma} \leq 1.9$, but not comply with the requirement of Class A
	Class C: Comply with $I_{\gamma} \leq 2.8$, but not comply with the requirements of Class A & Class B



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19. Test Item: Chemical Resistance Test

Sample Description: Sample A, See photo

Test Method: Refer to ANSI Z124.6-2007 Section 5.5

Test Condition:

Specimen: 100mm×100mm×30mm

Test time: 16h

Test surface: See photo

Test Result:

Reagent	Results	
	Covered	Uncovered
Naphtha	Unaffected	Unaffected
Ethyl alcohol	Unaffected	Unaffected
Amyl acetate	Unaffected	Unaffected
Household ammonia (10%)	Unaffected	Unaffected
Citric acid (10%)	Unaffected	Unaffected
Urea 6% water solution	Unaffected	Unaffected
Hydrogen peroxide solution (3%)	Unaffected	Unaffected
Concentrated sodium hypochlorite solution	Unaffected	Unaffected
Toluene	Unaffected	Unaffected
Ethyl acetate	Unaffected	Unaffected
Lye solution (2%)	Unaffected	Unaffected
Acetone	Unaffected	Unaffected
Trisodium phosphate (5%)	Unaffected	Unaffected
Vinegar	Unaffected	Unaffected
Pine oil	Unaffected	Unaffected

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