

TEST REPORT

No. : XMIN2306020672CM02_EN

Date : 2023-07-03

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Test Item: Composition Analysis

Sample Description: Artificial Stone

Test Method:

Fourier Transform Infrared Spectrometer (FTIR)
Pyrolysis-Gas Chromatography Mass Spectrometry (PGC-MS)
Energy dispersive X-ray fluorescence spectrometer (EDX)
Thermogravimetric Analyzer (TGA)
X-ray Powder Diffractometer (XRD)

Test Result:

No.	Composition	Content, Wt%
1	Unsaturated Polyester (UP)	7
2	Quartz	93
3	Color pigments	0.01

Note:

1. Wt%- weight percent.
2. Quartz stands for crystalized silicon dioxide.
3. Quantitative data is for reference only.



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TEST REPORT

No. : XMCCM160901311-2.1

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Summary of results:

(Average value)

Test item(s)	Test method(s)	Test result(s)
Absorption by weight	Refer to ASTM C97/C97M-15	0.04 %
Density		2322 kg/m ³
Abrasion resistance (polished)	Refer to ASTM C241/C241M-15 ^{e1}	38
Modulus of rupture	Refer to ASTM C99/C99M-15	Dry condition: 66.3 MPa
		Wet condition: 83.5 MPa
Flexural strength	Refer to ASTM C880/C880M-15	Dry condition: 67.9 MPa
		Wet condition: 82.4 MPa
Compressive strength	Refer to ASTM C170/C170M-16	Dry condition: 275 MPa
		Wet condition: 277 MPa
Cigarette test	Refer to ANSI Z124.6-2007	After test, there were no visible stains remains.
High temperature resistance	Refer to NEMA LD-3-2005	No effect
Chemical resistance test (polished)	Refer to ANSI Z124.6-2007	Unaffected
Impact resistance	Refer to NEMA LD-3-2005	Samples intact after ball falling from the height of 2.6 metres
Antimicrobial activity test	ASTM G 21-15	0 Grade
Surface burning characteristics	ASTM E84-16	Class A

Note: The test of Resistance to Fungi, Surface burning characteristics were carried out by SGS internal laboratories.

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

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