



TEST REPORT

98, Gyoyukwon-ro, Gwacheon-si, Gyeonggi-do, 13810, Korea

TEL 82-2-2164-0011

FAX 82-2-2634-1008

Report No : TAK-2020-186591

Receipt Date : 2020.12.14.

Representative : Kang Gye Woong, Kang In Sik

Test Completion Date : 2021.05.03.

Company name : LG HAUSYS Co., Ltd

Address : 98, Huam-ro, Jung-gu, Seoul, Republic of Korea

Sample name : Artificial Marble Volanics natural (VA22)

Test Results

TEST ITEM	UNIT	SAMPLE	RESULT	TEST METHOD
Specific Gravity((23/23) °C)(Method A)	-	-	1.69	ASTM D792-20
Rockwell Hardness(HRM)(Procedure A)	-	-	85	ASTM D785-08(2015)
Barcol Hardness	-	-	61	ASTM D2583-13a
Tensile Strength(***)	MPa	-	19.2	ASTM D638-14
Tensile Modulus of Elasticity(***)	GPa	-	9.36	ASTM D638-14
Flexural Strength(****)	MPa	-	59.6	ASTM D790-17
Flexural Modulus of Elasticity(****)	GPa	-	8.68	ASTM D790-17
Izod Impact Strength(Method A)	J/m	-	18	ASTM D256-10(2018)
Water Absorption(24 h Immersion)	%	-	0.03	ASTM D570-98(2018)
Appearance(Crack) after Heat Resistance[(170 ± 2) °C × 20 min]	-	-	No Defects	By The Client
Temperature Under Flexural Load(1.82 MPa)	°C	-	105	ASTM D648-18(Method B)
Thermal Expansion	1/°C	-	5.3×10^{-5}	Referencing KS M 3015 : 2003
Pencil Hardness(Mitsu bishi pencil)	-	-	8H	KS M ISO 15184 : 2012 Apply correspondingly
Appearance(Crack) after Hot Water Resistance	-	-	No Defects	By The Client(**)

- Next Page -

Cho Hyeong-gil

Prepared by Cho Hyeong-gil

Tel : 02-2092-3698

Im Youngkeun

Reviewed by Im Youngkeun

Tel : 1577-0091(ARS ①→④)

2021.05.03

Korea Testing & Research Institute

President



QR Code for forgery



TEST REPORT

98, Gyoyukwon-ro, Gwacheon-si, Gyeonggi-do, 13810, Korea

TEL 82-2-2164-0011

FAX 82-2-2634-1008

Report No : TAK-2020-186591

Receipt Date : 2020.12.14.

Representative : Kang Gye Woong, Kang In Sik

Test Completion Date : 2021.05.03.

Company name : LG HAUSYS Co., Ltd

Address : 98, Huam-ro, Jung-gu, Seoul, Republic of Korea

Sample name : Artificial Marble Volanics natural (VA22)

Test Results

TEST ITEM	UNIT	SAMPLE	RESULT	TEST METHOD
-----------	------	--------	--------	-------------

** Changing Appearance(Crack) after pour boiled water on the surface

*** Specimen: Type III, Speed of Testing: 1 mm/min

**** Support Span: 190 mm, Speed of Testing: 5.2 mm/min

- Usage of Report : QUALITY CONTROL

- Note :
1. The test results of this test report are only limited in to the samples and sample names provided by the client and do not guarantee the quality of all products of the client. You Can check website (www.ktr.or.kr) or QR code to verify the authenticity of the certificate.
 2. This test report shall be used only within the purpose of its defined usage and shall not be used for public relation, advertisement and lawsuit.
 3. This test report is only valid when printed on KTR original report paper with hologram and when re-issued by KTR. The copy and the electronic file of the test report are only for reference.

Cho Hyeong-gil

Prepared by Cho Hyeong-gil

Tel : 02-2092-3698

Im Youngkeun

Reviewed by Im Youngkeun

Tel : 1577-0091(ARS ①→④)

2021.05.03

Korea Testing & Research Institute

President



QR Code for forgery