



TEST REPORT

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

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Report No : TAK-2020-186587

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 Solid (S028)

Test Results

TEST ITEM	UNIT	SAMPLE	RESULT	TEST METHOD
Specific Gravity((23/23) °C)(Method A)	-	-	1.75	ASTM D792-20
Rockwell Hardness(HRM)(Procedure A)	-	-	89	ASTM D785-08(2015)
Barcol Hardness	-	-	64	ASTM D2583-13a
Tensile Strength(***)	MPa	-	41.9	ASTM D638-14
Tensile Modulus of Elasticity(***)	GPa	-	10.8	ASTM D638-14
Flexural Strength(****)	MPa	-	66.4	ASTM D790-17
Flexural Modulus of Elasticity(****)	GPa	-	10.3	ASTM D790-17
Izod Impact Strength(Method A)	J/m	-	19	ASTM D256-10(2018)
Water Absorption(24 h Immersion)	%	-	0.02	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	-	104	ASTM D648-18(Method B)
Thermal Expansion	1/°C	-	3.7×10^{-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 -

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2021.05.03

Korea Testing & Research Institute

President



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Page : 1 of 2

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전자문서본(Electronic Copy)



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Test Results

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

*** Specimen: Type III, Speed of Testing: 5 mm/min(Modulus: 1 mm/min)

**** Support Span: 190 mm, Speed of Testing: 5.1 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.
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