



TEST REPORT

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

TEL 82-2-2164-0011

FAX 82-2-2634-1008

Report No : TAK-2019-058170

Receipt Date : 2019.04.08.

Representative : Kyungjip Min

Test Completion Date : 2019.05.02.

Company name : LG HAUSYS Co., Ltd

Address : (Yeouido-dong, One IFC)10, Gukjegeumyung-ro, Yeongdeungpo-gu, Seoul, Korea.

Sample name : Artificial Marble (Intense)

Test Results

TEST ITEM	UNIT	SAMPLE	RESULT	TEST METHOD
Specific Gravity((23/23) °C)	-	-	1.722	ASTM D792-13(Method A)
Rockwell Hardness(HRM)	-	-	86	ASTM D785-08(2015)(Procedure A)
Barcol Hardness	-	-	62	ASTM D2583-13a
Tensile Strength	MPa	-	51.3	ASTM D638-14(*)
Tensile Modulus of Elasticity	GPa	-	9.43	ASTM D638-14(*)
Flexural Strength	MPa	-	71.7	ASTM D790-17(**)
Flexural Modulus of Elasticity	GPa	-	10.0	ASTM D790-17(**)
Izod Impact Strength	J/m	-	19	ASTM D256-10(2018)(Method A)
Water Absorption(24 h Immersion)	%	-	0.02	ASTM D570-98(2018)
Appearance(Crack) after Heat Resistance[(170±2) °C×1 h]	-	-	No Defects	Client Provided Test Method
Appearance(Crack) after Hot Water Resistance	-	-	No Defects	Client Provided Test Method(***)
Deflection Temperature Under Load(1.82 MPa)	°C	-	97	ASTM D648-18(Method B)
Thermal Expansion	1/°C	-	4.1×10^{-5}	KS M 3015 : 2003
Pencil Hardness(Mitsu bishi pencil)	-	-	8H	KS M ISO 15184 : 2013

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2019.05.02

Korea Testing & Research Institute

President



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

** Support Span: 190 mm, Speed of Testing 5.0 mm/min

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

- 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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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.

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