



TEST REPORT

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

TEL 82-43-211-6144

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Report No : TAK-2019-179885

Receipt Date : 2019.10.17.

Representative : Kyungjip Min

Test Completion Date : 2019.11.07.

Company name : LG HAUSYS Co., Ltd

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

Sample name : Artificial Marble Lucent (S302)

Test Results

TEST ITEM	UNIT	SAMPLE	RESULT	TEST METHOD
Specific Gravity((23/23) °C)	-	-	1.751	ASTM D792-13(Method A)
Rockwell Hardness(HRM)	-	-	88	ASTM D785-08(2015)(Procedure A)
Barcol Hardness	-	-	64	ASTM D2583-13a
Tensile Strength	MPa	-	45.9	ASTM D638-14(**)
Tensile Modulus of Elasticity	GPa	-	9.93	ASTM D638-14(**)
Flexural Strength	MPa	-	67.1	ASTM D790-17(***)
Flexural Modulus of Elasticity	GPa	-	9.75	ASTM D790-17(***)
Izod Impact Strength	J/m	-	18	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 × 20 min]	-	-	No Defects	Client Provided Test Method
Temperature Under Flexural Load(1.82 MPa)	°C	-	108	ASTM D648-18(Method B)
Thermal Expansion	1/°C	-	5.0×10^{-5}	KS M 3015 : 2003
Pencil Hardness(Mitsu bishi pencil)	-	-	9H	KS M ISO 15184 : 2012
Appearance(Crack) after Hot Water Resistance	-	-	No Defects	Client Provided Test Method(*)

- Next Page -

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Tel : 1577-0091(ARS ①→④)

2019.11.07

Korea Testing & Research Institute

President



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Test Results

TEST ITEM	UNIT	SAMPLE	RESULT	TEST METHOD
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* Changing Appearance(Crack) after pour boiled water on the surface

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

*** Support Span: 180 mm, Speed of Testing 4.7 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.
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