



TEST REPORT

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

TEL 82-43-211-6144

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Report No : TAK-2019-016960

Receipt Date : 2019.01.24.

Representative : Kyungjip Min

Test Completion Date : 2019.02.25.

Company name : LG HAUSYS Co., Ltd

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

Sample name : Artificial Marble Lucia (W008)

Test Results

| TEST ITEM | UNIT | SAMPLE | RESULT | TEST METHOD |
|--|------|--------|------------------------|-------------------------------------|
| Specific Gravity((23/23) °C) | - | - | 1.72 | ASTM D570-98(2018) |
| Rockwell Hardness(HRM) | - | - | 88 | ASTM D785-08(2015)(Procedure A) |
| Barcol Hardness | - | - | 65 | ASTM D2583-13a |
| Tensile Strength | MPa | - | 34.2 | ASTM D638-14(**) |
| Tensile Modulus of Elasticity | GPa | - | 10.1 | ASTM D638-14(**) |
| Flexural Strength | MPa | - | 65.5 | ASTM D790-17(***) |
| Flexural Modulus of Elasticity | GPa | - | 10.4 | ASTM D790-17(***) |
| Izod Impact Strength | J/m | - | 17 | 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 |
| Deflection Temperature Under Load(1.82 MPa) | °C | - | 104 | ASTM D648-18(Method B) |
| Thermal Expansion | 1/°C | - | 1.3 × 10 ⁻⁵ | KS M 3015 : 2003 |
| Pencil Hardness(Mitsu bishi pencil) | - | - | 9H | KS M ISO 15184 : 2013 |
| Heat Water Resistance(Appearance) | - | - | No Defects | Client Provided Test Method(*) |

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2019.02.25

Korea Testing & Research Institute

President



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전자문서본(Electronic Copy)



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Test Results

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

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

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

*** Speed of Testing: 5.1 mm/min, Support Span: 190 mm

- 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 fo public relation, advertisement and lawsuit.
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