



# TEST REPORT

68, Gajaeul-ro, Seo-gu, Incheon, SEOUL 404-817 Rep. of KOREA

TEL 82-32-5709-700 FAX 82-32-575-5613

Report No : TAS-046373

Receipt Date : Sep.27.2013

Client : Oh Jangsoo

Test Completion Date : Oct.18.2013

LG HAUSYS Co., Ltd

150, Songjeong-dong, Hungduk-gu, Cheongju-city, Chungbuk, 361-721, Korea

Sample : Artificial marble (GRANITE)

## TEST RESULTS

TEST ITEM	UNIT	SAMPLE	RESULT	TEST METHOD
Specific Gravity((23/23) °C)	-	-	1.698	ASTM D792-08(Method A)
Rockwell Hardness(HRM)	-	-	87	ASTM D785-08(Procedure A)
Tensile Strength	MPa	-	42.3	ASTM D638-10(*)
Tensile Modulus of Elasticity	GPa	-	9.83	ASTM D638-10(*)
Flexural Strength	MPa	-	61.6	ASTM D790-10(**)
Flexural Modulus of Elasticity	GPa	-	9.75	ASTM D790-10(**)
Izod Impact Strength	J/m	-	14	ASTM D256-10(Method A)
Water Absorption(24 h Immersion)	%	-	0.02	ASTM D570-98(2010)e1
Appearance(Discoloration) After Heat Resistance((170±2) °C × 1 h)	-	-	No Defects	By The Client
Hot Water Resistance Test	-	-	No Defects	JIS K 6902 : 2007
Deflection Temperature Under Load(1.82 MPa)	°C	-	98	ASTM D648-07(Method B)
Thermal Expansion	1/°C	-	3.6×10□□	JIS K 6911 : 1995
Pencil Hardness(Mitsu bishi pencil)	-	-	6H	KS M ISO 15184 : 2002

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

\*\* Speed of Testing: 5.5 mm/min, Support Span: 200 mm

USAGE : QUALITY CONTROL

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Oct.18.2013

## Korea Testing & Research Institute

President

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전자문서본(Electronic)





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- NOTE :
1. The test results on this test report are only limited to the samples and sample names provided by the customer and KTR do not guarantee the quality of all products of the customer.
  2. This test report shall not be used for public relation, advertisement, lawsuit and any other purposes outside the scope of its defined usage.
  3. This test report includes the test result performed in accordance with the test method which is presented by client.

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