

# TEST REPORT

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

TEL 82-41-589-0010 FAX 82-41-589-0012

Report No : TAK-2018-056862

Receipt Date : 2018.04.04.

Representative : Hong Seonggil, Hong Jeonggu

Test Completion Date : 2018.04.24.

Company name : SNOGEN CO., LTD.

Address : 4162, Sejong-ro, Gwangdeok-myeon, Dongnam-gu, Cheonan-si, Chungcheongnam-do, 31223, Rep. of KOREA

Sample name : Acrylic Solid Surface - Moon Terran

## Test Results

TEST ITEM	UNIT	SAMPLE	RESULT	TEST METHOD
Specific Gravity((23/23) °C)	-	-	1.71	ASTM D792-13(Method A)
Rockwell Hardness(HRM)	-	-	84	ASTM D785-08(2015)(Procedure A)
Barcol Hardness	-	-	61	ASTM D2583-13a
Tensile Strength	MPa	-	42.2	ASTM D638-14(*)
Tensile Modulus of Elasticity	GPa	-	8.86	ASTM D638-14(*)
Flexural Strength	MPa	-	64.9	ASTM D790-17(**)
Flexural Modulus of Elasticity	GPa	-	9.27	ASTM D790-17(**)
Izod Impact Strength	J/m	-	20	ASTM D256-10e1(Method A)
Water Absorption(24 h Immersion)	%	-	0.05	ASTM D570-98(2010)e1
Heat Resistance(Crack)	-	-	No Defects	JIS K 6902 : 2007(Method B)
Heat Water Resistance(Crack)	-	-	No Defects	JIS K 6902 : 2007(Method B)
Deflection Temperature Under Load(1.82 MPa)	°C	-	104	ASTM D648-16(Method B)
Accelerate Weathering Test(***) Color Difference	-	-	No Defects	KS M ISO 4892-2 : 2012, Method by Client
DEHP	%	-	Not detected	US EPA 8061A : 1996 (GC/MS)
DBP	%	-	Not detected	US EPA 8061A : 1996 (GC/MS)
BBP	%	-	Not detected	US EPA 8061A : 1996 (GC/MS)

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*Jung yu seok*

Prepared by Jung yu seok

E-mail:jys1064@ktr.or.kr

*You Seok*

Reviewed by You Seok

Tel : 1577-0091(ARS ①→④)

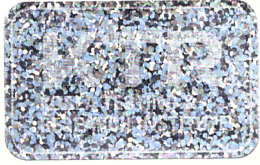
2018.04.24

## Korea Testing & Research Institute

President *Byun, Jong-Rip*



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

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

\*\*\* 촉진내후성시험 조건

Light Source : 12000W Xenon Arc,Irradiance : 0.51 W/m<sup>2</sup>

B.P.T. : 63 °C± 3 °C,Humidity : 50 %± 5 % RH,

Inner/Outer Filter : Borosilicate/Borosilicate,

Spray Cycle : 18 min /102 min(120 min), Exposure Time : 4 h

- Method Detection Limit -

Bis(2-ethylhexyl) phthalate (DEHP) : 0.005 %

Dibutyl phthalate (DBP) : 0.005 %

Butyl benzyl phthalate (BBP) : 0.005 %

- 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](http://www.ktr.or.kr)) or QR code to verify the authenticity of the certificate.
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*Jung yu seok*

Prepared by Jung yu seok

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