



TEST REPORT

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

TEL 82-2-2164-0011

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Report No : TAK-2019-144078

Receipt Date : 2019.08.01.

Representative : Lee Ja Hyung

Test Completion Date : 2019.08.23.

Company name : Lotte Advanced Materials Co., Ltd.

Address : 56, Gosan-ro, Uiwang-si, Gyeonggi-do, Korea 16073

Sample name : Artificial Marble(STARON)

Test Results

TEST ITEM	UNIT	SAMPLE	RESULT	TEST METHOD
Specific Gravity((23/23) °C)	-	-	1.778	ASTM D792-13(Method A)
Water Absorption(24 h Immersion)	%	-	0.02	ASTM D570-98(2018)
Barcol Hardness	-	-	67	ASTM D2583-13a
Rockwell Hardness(HRM)	-	-	96	ASTM D785-08(2015)(Procedure A)
Izod Impact Strength	J/m	-	17	ASTM D256-10(2018)(Method A)
Tensile Strength	MPa	-	41.9	ASTM D638-14(*)
Flexural Strength	MPa	-	59.8	ASTM D790-17(**)
Flexural Modulus of Elasticity	GPa	-	10.8	ASTM D790-17(**)
Thermal Expansion	1/°C	-	5.6×10^{-5}	KS M 3015 : 2003
Temperature Under Flexural Load(1.82 MPa)	°C	-	109	ASTM D648-18(Method B)
Appearance(Crack) after Heat Resistance[(170 ± 2) °C × 1 h]	-	-	No Defects	Client Provided Test Method
Appearance(Discoloration) after Hot Water Resistance	-	-	No Defects	Client Provided Test Method(***)
Dropping Impact Test	-	-	No Defects	Client Provided Test Method(****)

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2019.08.23

Korea Testing & Research Institute

President



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전자문서본(Electronic Copy)



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* Specimen: Type I, Speed of Testing: 5 mm/min

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

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

**** Height : 2 m, 112 g(Steel Ball), Appearance : Crack

- 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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