





TEST REPORT

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

TEL 82-2-2164-0011

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: TAK-2023-039199 Report No

Receipt Date: 2023.03.10.

Representative : KIM GYO HYUN, SHIN DONG BIN, LEE YOUNG JUN, HWANG JIN GU

Test Completion Date: 2023.03.24.

Company name: LOTTE CHEMICAL Corp.

: 56, Gosan-ro, Uiwang-si, Gyeonggi-do, Korea.

Sample name : Artificial marble[STARON]

				27 141
Test Results				
TEST ITEM	UNIT	SAMPLE	RESULT	TEST METHOD
Specific Gravity((23/23) ℃)(Method A)	_ -	-	1.77	ASTM D792-20
Water Absorption(24 h Immersion)	%	-	0.02	ASTM D570-22
Barcol Hardness	-	-	65	ASTM D2583-13a
Rockwell Hardness(HRM)(Procedure A)	_	-	94	ASTM D785-08(2015)
IZOD Pendulum Impact Resistance(Method A)	J/m	-	18	ASTM D256-10(2018)
Tensile Strength(**)	MPa	-	39.5	ASTM D638-22
Flexural Strength(***)	MPa	-	59.2	ASTM D790-17
Flexural Modulus of Elasticity(***)	GPa	-	10.2	ASTM D790-17
Thermal Expansion	1/℃		5.8×10 ⁻⁵	Referencing with KS M 3015 : 2003
Temperature Under Flexural Load(Method B,1.82 MPa)	°C		110	ASTM D648-18
Appearance(Crack) after Heat Resistance[(170 ± 2) ℃×1 h]	_	<u>-</u>	No Defects	By the Client
Appearance after Hot Water Resistance	- 0,4		No Defects	By the Client(****)
Dropping Impact Test	- 30	200	No Defects	By the Client(*****)

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Cho Hyeong-gil Prepared by Cho Hyeong-gil

Tel: 02-2092-3698

Ryoung-Mun

Reviewed by Kyoung-Mun KIM Tel: 1577-0091(ARS ①→④)

2023.03.24

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

- 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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Cho Hyeong-gil Prepared by Cho Hyeong-gil

Tel: 02-2092-3698

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Specimen: Type III, Speed of Testing: 5 mm/min

Support Span: 188 mm, Speed of Testing: 5.0 mm/min

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

^{*****} Drop Height: 2 m, drop Weight: 112 g(Steel ball), Test Surface: Concrete, Appearance: Crack or Not

⁻ Usage of Report: QUALITY CONTROL