





TEST REPORT

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

TEL 82-31-499-5390

FAX 82-31-499-6867

Report No : TAK-2022-169185

Receipt Date: 2022.12.13.

Representative: Jin Myeong ho, Kim Yong Kee

Test Completion Date: 2023.01.30.

Company name: NOROO Paint & Coatings Co., Ltd.

Address : (Polydol dong)251 Polydol r

: (Bakdal-dong)351, Bakdal-ro, Manan-gu, Anyang-si, Gyeonggi-do, Korea

Sample name : NR CRYSTAL(V)

Test Results

rest results				
TEST ITEM	UNIT	SAMPLE	RESULT	TEST METHOD
Durometer Hardness(Type D)	-/	-	80	ASTM D2240-15e1
Tensile Strength(**)	MPa	-	58.2	ASTM D638-22
Elongation at Break(**)	%	-	2.4	ASTM D638-22
Compressive Strength(***)	MPa	-	127	ASTM D695-15
Flexural Strength(****)	MPa	-	99.5	ASTM D790-17
Izod Impact Strength	J/m	-	27.9	ASTM D256-10(2018)
Water Absorption(24 h Immersion)	%	-	0.11	ASTM D570-22
Taber Abrasion Test(Weight Loss)	mg	-	28	ASTM D4060-19
Adhesion Strength(*)	MPa	- ,	2	KS M ISO 4624: 2016

^{*} Surface: Iron plate, Adhesive: 2-component epoxy, Test speed: below 1 MPa/s Fracture Characteristics: Cohesive fractures by the coat(B)
Test equipment: PosiTest AT (Defelsko- USA)

- * This is the result of the test with the specimen provided by the client.
- ** Specimen: Type I, Speed of testing: 5 mm/min

*** Specimen: Prism

**** Speed of testing: 1.8 mm/min, Support span: 70 mm ***** Wheels: CS-17, Weight: 1 000 g, Cycles: 1 000

- Usage of Report: QUALITY CONTROL

- Next Page -



Prepared by Park Seungphyo

Tel: 02-2092-3696

Choi Byung A

Reviewed by Choi Byung II Tel: 1577-0091(ARS ①→④)

2023.01.30

Korea Testing & Research Institute

President



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Additional (Particle Value Val

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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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Reviewed by Choi Byung II
Tel: 1577-0091(ARS ①-④)

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