KTR KOREA TESTING & RESEARCH INSTITUTE

TEST REPORT

98, Gyoyukwon-ro, Gwacheon-si, Gyeonggi-do, 13810, Korea TEL 82-43-211-6144 FAX 82-43-211-6148

Report No : TAK-2025-050997
Representative : LEE JIN WON
Company name : HYUNDAI L&C
Address : 1077, Cheonho-daero, Gangdong-gu, Seoul, Republic of Korea

Receipt Date : 2025.04.01.
Test Completion Date : 2025.04.25.

Sample name : Hanex_Cascade

Test Results

TEST ITEM	UNIT	SAMPLE	RESULT	TEST METHOD
Specific Gravity((23/23) ℃)(Method A)	-	-	1.75	ASTM D792-20
Rockwell Hardness(HRM)(Procedure A)	-	-	110	ASTM D785-08(2015)
Tensile Strength(**)	MPa	-	31.0	ASTM D638-22
Tensile Modulus of Elasticity(**)	GPa	-	9.36	ASTM D638-22
Flexural Strength(***)	MPa	-	57.8	ASTM D790-17
Flexural Modulus of Elasticity(***)	GPa	-	10.7	ASTM D790-17
Izod Impact Strength(Method A)	J/m	-	16	ASTM D256-23e1
Water Absorption(24 h Immersion)	%	-	0.02	ASTM D570-22
Density(23 ℃)(Method A)	kg/m^3	-	1.75×10^3	ASTM D792-20
Heat Resistance(Appearance)	-	-	No Defects	applied JIS K 6902 : 2022(Method B)
Hot Water Resistance(Appearance)	-	-	No Defects	applied JIS K 6902 : 2022(Method B)
Deflection Temperature Under Load(1.82 MPa, Method B)	℃	-	114	ASTM D648-18
Thermal Expansion	1/℃	-	4.1×10^{-5}	applied KS M 3015 : 2003

** Specimen: Type III, Speed of Testing: 5 mm/min(Modulus: 1 mm/min)
*** Support Span: 194 mm, Speed of Testing: 5.2 mm/min
- Usage of Report : QUALITY CONTROL

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2025.04.25

Korea Testing & Research Institute

President Kim Hyun Cheol

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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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