



TEST REPORT

15, Jongga-ro, Jung-gu, Ulsan, 44412, Korea

TEL 82-51-464-0771

FAX 82-51-462-2115

Report No : TAK-2022-034493

Receipt Date : 2022.03.04.

Representative : Jin-Ho Son

Test Completion Date : 2022.04.25.

Company name : PLAZEN CO., LTD.

Address : 4, Yangdongnonggongdanji-gil, Hanam-eup, Miryang-si, Gyeongsangnam-do, Korea

Sample name : Plastic Specimen(AS 210)

Test Results

TEST ITEM	UNIT	SAMPLE	RESULT	TEST METHOD
Tensile Strength(*)	MPa	-	53.0	ASTM D638-14
Elongation at Break(*)	%	-	1.9	ASTM D638-14
Flexural Strength(Procedure B)(**)	MPa	-	120	ASTM D790-17
Flexural Modulus of Elasticity(Procedure A)(**)	GPa	-	2.92	ASTM D790-17
Izod Impact Resistance(Method A)(***)	J/m	-	13	ASTM D256-10(2018)
Charpy Impact Strength(****)	kJ/m ²	-	12	KS M ISO 179-1 : 2012
Deflection Temperature Under Load(1.82 MPa)(Procedure B)	°C	-	89	ASTM D648-18
Vicat Softening Temperature(10 N)(*****)	°C	-	109	ASTM D1525-17e1
Specific Gravity(23 °C/23 °C)(Test Method A)	-	-	1.19	ASTM D792-20
Water Absorption(24 h Immersion)(*****)	%	-	0.20	With reference to ASTM D570-98(2018)
Total Luminous Transmittance	%	-	92.2	ASTM D1003-13(Procedure A)
Rockwell Hardness(HRM)(Procedure A)	-	-	100	ASTM D785-08(2015)
Pencil hardness(Mitsubishi)	-	-	2 H	With reference to ASTM D3363-20

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2022.04.25

Korea Testing & Research Institute

President



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전자문서본(Electronic Copy)



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(*) Specimen Type : Type I , Speed of Testing : 50 mm/min

(**) Support span : 80 mm

(***) Break Type : Complete Break

(****) Specimen Type : KS M ISO 179-1/1eU, Break Type : Complete Break

(*****) Rate of temperature rise 120 °C / h (Rate : B)

(*****) average thickness of specimen : 5.0 mm

- 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.
 2. This test report shall be used only within the purpose of its defined usage and shall not be used for public relation, advertisement and lawsuit.
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