



Material and Engineering Laboratory-Taipei



Testing Laboratory
0104

TEST REPORT



REPORT NO. : HV-21-03264A-1

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REPORT DATE : AUG. 17, 2021

Applicant: UniGreenTek Co., Ltd.
Address: 9F., No. 3-2, Park St., Nangang Dist., Taipei City 115, Taiwan (R.O.C.)
Tax ID number: 83509410
Head person: HO, CHUN-CHANG
ID number: Y120273509
Sample Name: GREENuWood Polystyrene Composite EX III
Sample Type: G-FG-25-50, simulated wood color
Usage: decking, residential or outdoor facilities
Ingredient: polystyrene 70~75%, thermoplastic elastomer (TPE) 20~25%,
Azodicarbonamide(AC) 1~2%,
modifier 3~5%, Color Masterbatch less than 1%
Specification: description: section size 25x50 mm, simulated wood color
Thickness: 25 mm
Sample delivery unit: UniGreenTek Co., Ltd.
Sample Submitted By: UniGreenTek Co., Ltd.(Chen, Pi Yun)
Date of Sampling: JUNE 11, 2021
Date of Sample Received: JUNE 11, 2021
Date of Testing: JUNE 11, 2021~AUG. 11, 2021
Test Method: CNS 15730 (2019) 、CNS 12451 (1988)
Remark: 1.The information mentioned in the above section is provided by Client
(Exclude Date of Sample Received and Date of Testing)
2.The following report content marks # is provided by Client

Test Results:

Test Items		Test Results
Basic physical properties		
Density(specific gravity)	Real Specific Gravity(23.0°C)	0.571
Water absorption characteristics	Water Absorption(%)	0.2
	Length Change Rate(%)	0.1
Strength	Flexural Strength(MPa)	25.3
	Charpy Impact Resistance(kJ/m ²)	3.8

The value of required specifications are for reference only.
Conformity judgement is the Applicant's final verdict.


Signed for and on behalf of
SGS TAIWAN Ltd.

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Test Results:

Test Items			Test Results
Basic physical properties			
Thermal characteristics	Method B	Vicat Softening Temperature(°C) (Test Load : 10N ; Heating Rate : 120 °C/h)	93
Weather resistance	Method B	Change rate of Flexural Strength(%)	+2

Remark: 1. Test location is the same as the laboratory address.

Water absorption characteristics 、 Strength (Flexural Strength 、 Charpy Impact Resistance) 、
Thermal characteristics 、 Weather resistance is subcontracted to SGS M&E Laboratory-Taichung.
(TAF accreditation No.0292) 。

2. Charpy Impact Resistance test condition

Energy of Pendulum : 4.0 J

Specimen Type : No. 1 , Unnotched Specimen

Span : 50.0mm

Type of Failure : C (Complete Break)

3. Weather resistance test condition

Typical Irradiance : 0.35 W/(m² · nm)

Wavelength Range : 340 nm

Filter : Daylight

Exposure Cycle : 3.8 h 35 % RH light at 63 °C black panel temperature ;
1 h dark at 90 % RH

4. This Test Report cancels and supersedes the Test Report No. HV-21-03264A ,

Revised date : SEPTEMBER 11, 2021 。

Revised the ingredient" Master Batch" to "Masterbatch" .

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The value of required specifications are for reference only.
Conformity judgement is the Applicant's final verdict.

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