TEST REPORT

No. : SHIN2107049550CM
Date : Aug 25, 2021
Page: 1 of 27

scan to see the report
SHIN2107049550CM

CUSTOMER NAME: SAIGE LONGLIFE DECKING LIMITED
ADDRESS: VICARAGE BARNS LOWER QUINTON STRATFORD UPON AVON WARWICKSHIRE CV378SH ENGLAND

Sample Name	:	SAIGE RUSTIC SOLID DECKING
Product Specification	:	140*23mm
Material and Mark	:	WPC
Other Information	:	Rustic Walnut

Above information and sample(s) was/were submitted and confirmed by the client. SGS, however, assumes no responsibility to verify the accuracy, adequacy and completeness of the sample information provided by client.

****

Test Required	:	Please see the next page(s)
SGS Ref. No.	:	NJIN2107003524ML
Ref. Standard	:	Please see the next page(s)
Date of Receipt	:	Jul 15, 2021
Testing Start Date	:	Jul 15, 2021
Testing End Date	:	Aug 23, 2021
Test result(s)	:	For further details, please refer to the following page(s) (Unless otherwise stated the results shown in this test report refer only to the sample(s) tested)

Signed for
SGS-CSTC Standards Technical Service (Shanghai)Co., Ltd.

Ziven Wang

Ziven Wang
Authorized signatory

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TEST REPORT

Summary of Results:

No.	Test Item	Test Method	Result	Conclusion
1	Pendulum Test	BS 7976-2:2002+A1:2013	See Result	/
2	Nail and Screw Withdrawal	EN 15534-1:2014+A1:2017 Clause 7.6 & EN 13446:2002	See Result	/
3	Swelling in Thickness after Immersion in Water	EN 317:1993	0.2 %	/
4	Flexural Strength and Modulus of Elasticity	ISO 178:2019 Method A	See Result	/
5	Charpy Notched Impact Strength	BS EN ISO 179-1:2010	1.9kJ/m^2 C (complete break)	/
6	Charpy Unnotched Impact Strength	BS EN ISO 179-1:2010	4.8kJ/m^2 C (complete break)	/
7	Density	EN ISO 1183-1:2019 Method A	1.466 g/cm^3	/
8	Flexural Test at Specified Temperature	EN ISO 178:2019 Method A	See Result	/
9	Tensile Modulus	EN ISO 527-1:2019 & EN ISO 527-2:2012	3820 MPa	/
10	Tensile Test	EN ISO 527-1:2019 & EN ISO 527-2:2012	See Result	/
11	Mean Coefficient of Linear Thermal Expansion	ISO 11359-1:2014 & ISO 11359-2:1999 Method A	See Result	/
12	Hot Nut Test (Flammability Test)	BS 5287:1988	See Result	/
13	RoHs	With reference to IEC62321-4:2013+AMD1:2017 & IEC62321-5:2013 &	See Result	/

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		IEC62321-7-2:2017 & IEC 62321-6:2015 & IEC62321-8:2017		
14	Formaldehyde Emission	With reference to EN 717-1:2004	See Result	/

Note: Pass : Meet the requirements;
Fail : Does not meet the requirements;
/ : Not Apply to the judgment.

Original Sample Photo(s):

Pendulum Test / Nail and Screw Withdrawal / Swelling in Thickness after Immersion in Water / Flexural Strength and Modulus of Elasticity - Front View (Testing surface)	Pendulum Test / Nail and Screw Withdrawal / Swelling in Thickness after Immersion in Water / Flexural Strength and Modulus of Elasticity - Back View

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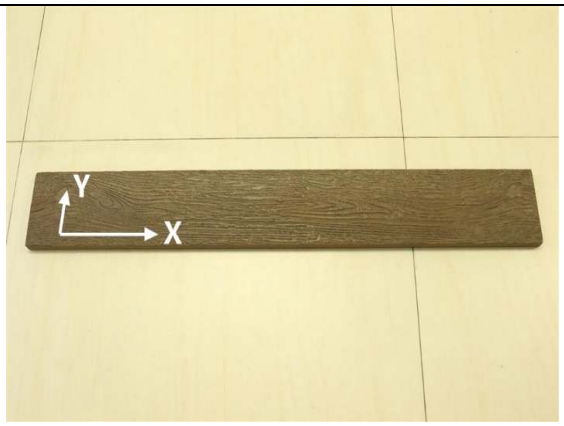
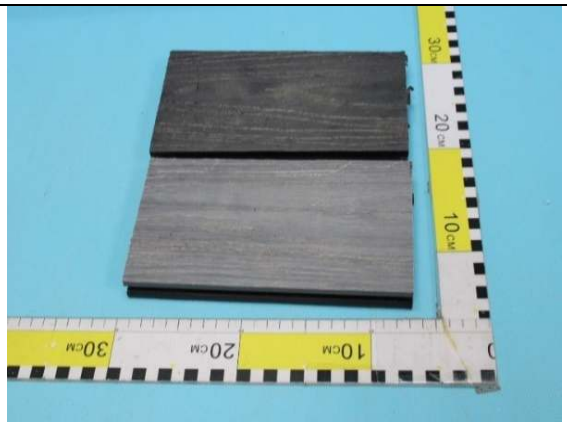
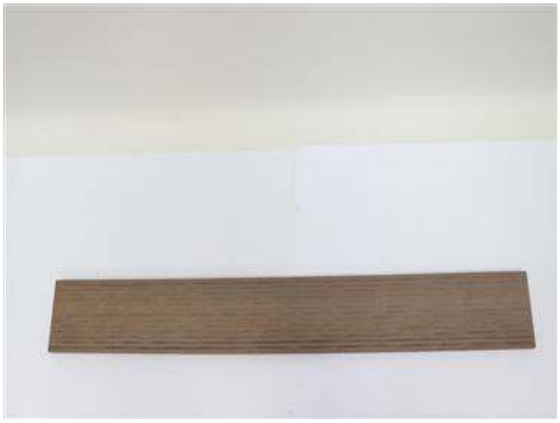
	
Charpy Impact Strength / Density / Flexural Test at Specified Temperature / Tensile Modulus/ Tensile Test / Mean Coefficient of Linear Thermal Expansion	Hot Nut Test (Flammability Test)
	
RoHs / Formaldehyde Emission	

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1. Test Item: Pendulum Test

Test Method: BS 7976-2:2002+A1:2013

Test Condition:

Specimen: 200mm×140mm×23mm, 8pcs

Test direction: Perpendicular to the length direction

Test temperature: 22℃

Slider type: TRL

Temperature corrections for PTV: No correction

Lab Environmental Condition: 20±5℃, 50±5%RH

Test Result:

Test Item		Test Result					
		PTV				Average of PTV	PTV (Temperature corrections)
Pendulum test – Front view	Dry	70	69	69	71	70	70
	Wet	49	48	47	47	48	48
Pendulum test – Back view	Dry	75	75	76	76	76	76
	Wet	47	45	44	44	45	45

Note: Test specimens were cut from original sample.

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2. Test Item: Nail and Screw Withdrawal

Test Method: EN 15534-1:2014+A1:2017 Clause 7.6 & EN 13446:2002

Test Condition:

Specimen: 50mm×50mm×23mm, 6pcs

Diameter of the lead hole: Φ2.0mm

Dimension of the screw: Φ4.0mm×38mm

Depth of threaded: throughout the specimens

Test Rate: 1.5mm/min

Lab Environmental Condition: 20±2℃, 65±5%RH

Test Result:

Test Item		Test Result							
		Individual Value						Average Value	Standard deviation
Nail and Screw Withdrawal	d (mm)	4.0	4.0	4.0	4.0	4.0	4.0	4.0	/
	l_p (mm)	22.8	22.6	22.2	22.1	23.1	22.9	22.6	/
	ρ (g/cm^3)	1.4	1.4	1.4	1.4	1.4	1.4	1.4	/
	F_{max} (N)	4745	4908	4767	4692	4821	4939	4812	96
	f (N/mm^2)	52.0	54.3	53.7	53.1	52.2	53.9	53.4	0.9

Note: Test specimens were cut from original sample.

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3. Test Item: Swelling in Thickness after Immersion in Water

Test Method: EN 317:1993

Test Condition:

Specimen: 50mm×50mm×23mm, 8pcs

Treatment condition: Immersion in water for 24h

Lab Environmental Condition: 20±2℃, 65±5%RH

Test Result:

Test Item	Test Result								
	Individual Value								Average Value
Swelling in Thickness after Immersion in Water (%)	0.9	0.0	0.1	0.0	0.5	0.0	0.2	0.3	0.2

Note: Test specimens were cut from original sample.

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4. Test Item: Flexural Strength and Modulus of Elasticity

Test Method: ISO 178:2019 Method A

Lab Environmental Condition: 23±2℃, 50±5%RH

Test Condition:

1) Specimen: 500mm×140mm×23mm, 5pcs

Test Span: 300mm

Test Rate: 6.5mm/min

Test Result:

Test Item	Test Result					
	Individual Value					Average Value
Flexural Strength (MPa)	42.1	45.0	41.8	42.0	43.9	43.0
Modulus of Elasticity (MPa)	4806	4803	4546	4330	3113	4320

2) Specimen: 500mm×143mm×23mm, 5pcs

Test Span: 350mm

Test Rate: 8.9mm/min

Test Result:

Test Item	Test Result					
	Individual Value					Average Value
Flexural Strength (MPa)	41.3	40.9	41.6	40.1	41.3	41.0
Modulus of Elasticity (MPa)	3852	3842	3915	4154	4357	4024

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3) Specimen: 500mm×143mm×23mm, 5pcs

Test Span: 400mm

Test Rate: 11.6mm/min

Test Result:

Test Item	Test Result					
	Individual Value					Average Value
Flexural Strength (MPa)	41.0	42.8	41.8	43.2	40.2	41.8
Modulus of Elasticity (MPa)	4341	4477	4371	4908	4302	4480

Note: Test specimens were cut from original sample.

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5. Test Item: Charpy Notched Impact Strength

Sample Description: Plastic part

Test Method: BS EN ISO 179-1:2010

Test Condition:

Specimen: ISO 179-1/1eA (Notch preparation: machining)

Specimen thickness: 4.12mm

The capacity of the pendulum: 1J

Impact speed: 2.9m/s

Span: 62mm

Lab Environmental Condition: 23±2℃, 50±5%RH

Test Result:

Test Item	Test Result
Charpy Notched Impact Strength	1.9kJ/m^2 C (complete break)

Note: Test specimens were cut from the sample.

Test Photo(s):

During test

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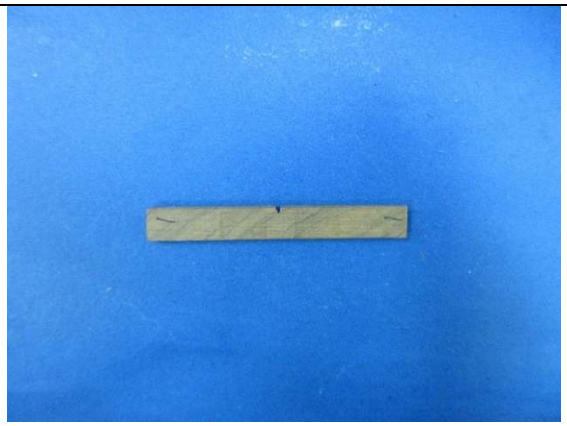	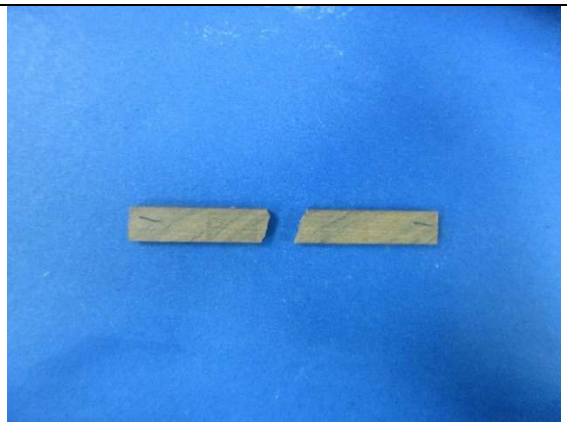
Before test- Notched	After test- Notched

Equipment Information:

Equipment	Model	Equipment No.	Calibration date	Next Calibration date
Impact Tester	HIT50P	GZMR-PL-E283	2020-09-24	2021-09-23

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6. Test Item: Charpy Unnotched Impact Strength

Sample Description: Plastic part

Test Method: BS EN ISO 179-1:2010

Test Condition:

Specimen: ISO 179-1/1eU

Specimen thickness: 4.10mm

The capacity of the pendulum: 1J

Impact speed: 2.9m/s

Span: 62mm

Lab Environmental Condition: 23±2℃, 50±5%RH

Test Result:

Test Item	Test Result
Charpy Unnotched Impact Strength	4.8kJ/m^2 C (complete break)

Note: Test specimens were cut from the sample.

Test Photo(s):

During test

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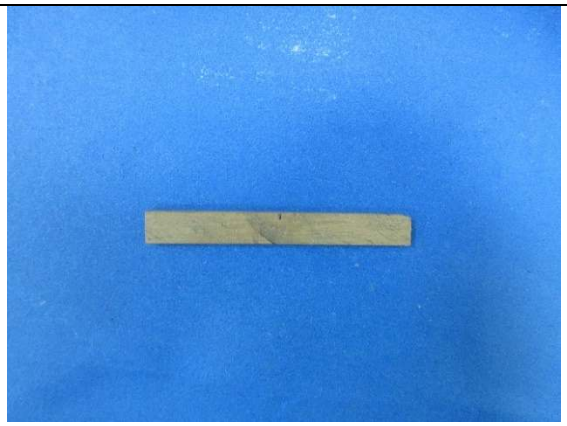	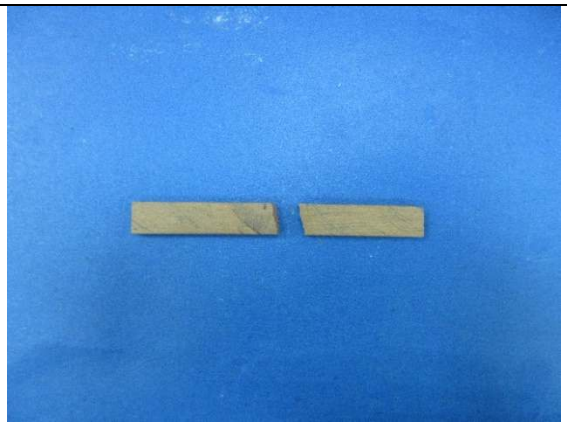
Before test- Unnotched	After test- Unnotched

Equipment Information:

Equipment	Model	Equipment No.	Calibration date	Next Calibration date
Impact Tester	HIT50P	GZMR-PL-E283	2020-09-24	2021-09-23

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TEST REPORT

7. Test Item: Density

Sample Description: Plastic part

Test Method: EN ISO 1183-1:2019 Method A

Test Condition:

Absolute alcohol, (23±0.5)℃

Lab Environmental Condition: (23±2)℃, (50±5)%RH

Test Result:

Test Item	Test Result
Density	1.466 g/cm^3

Note: Test specimens were cut from the sample.

Test Photo:

During test	Before test

Equipment Information:

Equipment	Model	Equipment No.	Calibration date	Next Calibration date
Electron Balance	XPE204	GZMR-PL-E004-06	2021-07-19	2022-07-18

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TEST REPORT

8. Test Item: Flexural Test at Specified Temperature

Sample Description: Plastic part

Test Method: EN ISO 178:2019 Method A

Test Condition:

Specimen: 80mm×9.82mm×3.94mm

Test condition: -35℃, 2h → -35℃

Testing speed: 2mm/min

Span: 64mm

Lab Environmental Condition: (23±2)℃, (50±5)%RH

Test Result :

Test Item	Test Result
Flexural Strength	71.3MPa
Flexural Modulus	8980MPa

Note: Test specimens were cut from the sample.

Test Photo:

During test

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Before test	After test

Equipment Information:

Equipment	Model	Equipment No.	Calibration date	Next Calibration date
High-Low temperature Universal testing machine	Z020	GZMR-PL-E264	2020-08-11	2021-08-10

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TEST REPORT

9. Test Item: Tensile Modulus

Sample Description: Plastic part

Test Method: EN ISO 527-1:2019 & EN ISO 527-2:2012

Test Condition:

Specimen: Type 1B

Specimen thickness: 4.73mm

Testing speed: 1 mm/min

Gauge length: 50 mm

Initial distance between grips: 115 mm

Lab Environmental Condition: (23±2)℃, (50±5)%RH

Test Result:

Test Item	Test Result
Tensile Modulus	3820 MPa (see table 1)

Table 1:

Specimen	#1	#2	#3	#4	#5	#6	#7	#8	#9	#10
Tensile Modulus, MPa	3663	4552	3942	2998	3124	3514	4609	4774	3668	3366

Note: Test specimens were cut from the sample.

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TEST REPORT

No. : SHIN2107049550CM
Date : Aug 25, 2021

Test Photo:

During test	Before test

Equipment Information:

Equipment	Model	Equipment No.	Calibration date	Next Calibration date
High-Low temperature Universal testing machine	Z020	GZMR-PL-E264	2020-08-11	2021-08-10

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TEST REPORT

10. Test Item: Tensile Test

Sample Description: Plastic part

Test Method: EN ISO 527-1:2019 & EN ISO 527-2:2012

Test Condition:

Specimen: Type 1B

Specimen thickness: 4.73mm

Testing speed: 5mm/min

Gauge length: 50 mm

Initial distance between grips: 115 mm

Lab Environmental Condition: (23±2)℃, (50±5)%RH

Test Result:

Test Item	Test Result
Tensile Strength	22.4 MPa (see table 1)
Tensile Strain at Break	0.72 % (see table 1)

Table 1:

Specimen	#1	#2	#3	#4	#5	#6	#7	#8	#9	#10
Tensile Strength, MPa	18.26	30.87	21.48	16.69	18.57	15.68	30.01	28.32	22.23	21.84
Tensile Strain at Break, %	0.539	1.11	0.690	0.624	0.579	0.461	0.971	0.791	0.742	0.712

Note: Test specimens were cut from the sample.

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TEST REPORT

Test Photo:

During test

Before test

After test

Equipment Information:

Equipment	Model	Equipment No.	Calibration date	Next Calibration date
High-Low temperature Universal testing machine	Z020	GZMR-PL-E264	2020-08-11	2021-08-10

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11. Test Item: Mean Coefficient of Linear Thermal Expansion

Sample Description: Plastic part

Test Method: ISO 11359-1:2014 & ISO 11359-2:1999 Method A

Test Condition:

Length - Specimen: 9.74 mm ×5.61mm ×5.15 mm

Width - Specimen: 8.78 mm ×5.73 mm ×5.37 mm

Rate of temperature: 5 ℃/min

Load: 4 kPa

Flow rate(He): 50 ml/min

Test temperature: 0 ℃~70 ℃

Test mode: Compression

Test direction: Length & Width

Number of specimens tested: 1(For each direction)

Lab Environmental Condition: (23±2)℃, (50±5)%RH

Test Result:

Test Item	Test Result	
Mean Coefficient of Linear Thermal Expansion	Length	28×10^{-6} K^{-1}
	Width	58×10^{-6} K^{-1}

Note: Test specimens were cut from the sample.

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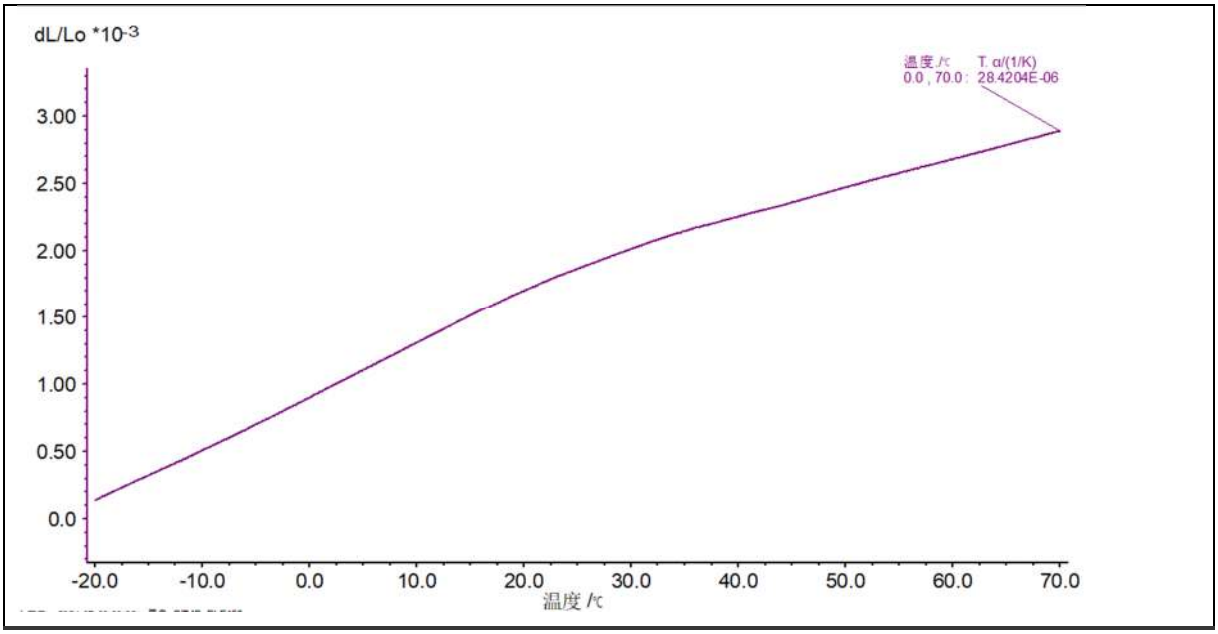
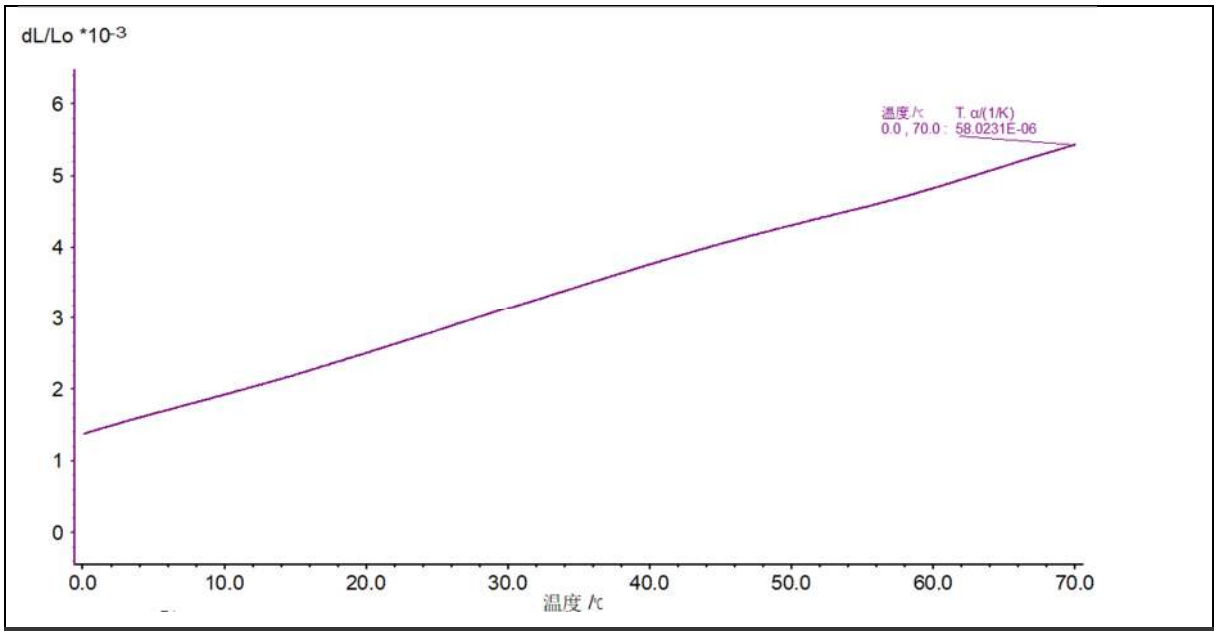
Curve - Length:



Curve - Width :



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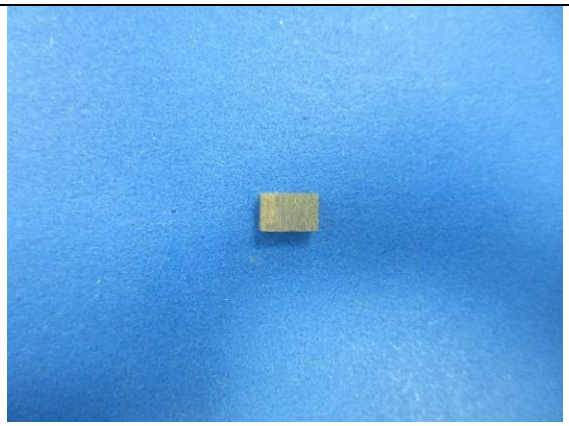
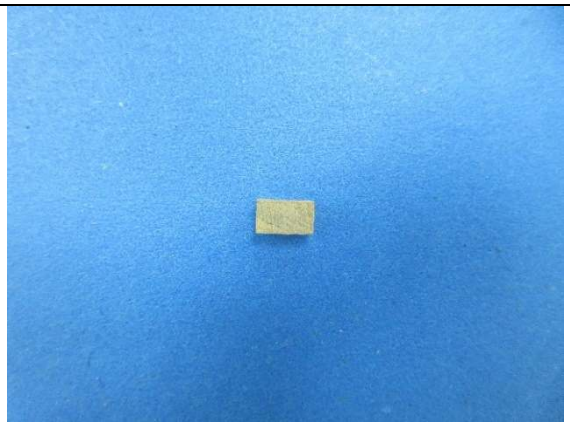
TEST REPORT

Test Photo:

During test



Before test - Length



Before test - Width

Equipment Information:

Equipment	Model	Equipment No.	Calibration date	Next Calibration date
Thermo Mechanical Analyzer	TMA402F3	GZMR-PL-E158	2021-07-08	2022-07-07

Note: Test items 5-11 were performed by SGS-CSTC Standards Technical Services Co., Ltd. Guangzhou Branch Testing Center.

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TEST REPORT

12. Test Item: Hot Nut Test (Flammability Test)

Test Method: Refer to BS 5287:1988 Assessment and labelling of textile floor coverings tested to BS 4790.

Sample Details

Name	Board

Test Condition:

	Temperature	Relative humidity	Duration
Precondition	(20±2)℃	(65±2)%	24 h

Test Result:

Test method accordance with BS 4790:1987 Incorporating Amendment Nos.1 and 2; Method for the Determination of the effects of a small source of ignition on textile floor coverings (hot metal nut method).

Application of nut: temperature of 900±20°C in the muffle furnace.			
Specimen No.	S1	S2	S3
Whether the sample ignited	Yes	Yes	Yes
Flame time (sec)	27	34	25
After glow (sec)	0	0	0
Smoulder (sec)	49	58	44
Whether the ignition to reach the clamping ring	No	No	No
Time to reach the clamping ring (sec)	N/A	N/A	N/A
The greatest radius of the affected area (nearest 5mm)	15mm	15mm	15mm

Deviation: The tested sample was not within the scope of the standard.

Remark:

N/A — Not Applicable

Note: Test items 12 were performed by SGS-CSTC Standards Technical Services Co., Ltd. Shunde Branch Testing Center.

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13. Test Item: RoHs

Test Part Description: Brown board

Test Method: With reference to IEC62321-4:2013+AMD1:2017 & IEC62321-5:2013 & IEC62321-7-2:2017 & IEC 62321-6:2015 & IEC62321-8:2017, analyzed by ICP-OES, UV-Vis and GC-MS.

Test Result:

Test Item(s)	Limit	Unit	MDL	Result
Cadmium (Cd)	100	mg/kg	2	ND
Lead (Pb)	1000	mg/kg	2	ND
Mercury (Hg)	1000	mg/kg	2	ND
Hexavalent Chromium (Cr (VI))	1000	mg/kg	8	ND
Sum of PBBs	1000	mg/kg	-	ND
Monobromobiphenyl	-	mg/kg	5	ND
Dibromobiphenyl	-	mg/kg	5	ND
Tribromobiphenyl	-	mg/kg	5	ND
Tetrabromobiphenyl	-	mg/kg	5	ND
Pentabromobiphenyl	-	mg/kg	5	ND
Hexabromobiphenyl	-	mg/kg	5	ND
Heptabromobiphenyl	-	mg/kg	5	ND
Octabromobiphenyl	-	mg/kg	5	ND
Nonabromobiphenyl	-	mg/kg	5	ND
Decabromobiphenyl	-	mg/kg	5	ND
Sum of PBDEs	1000	mg/kg	-	ND
Monobromodiphenyl ether	-	mg/kg	5	ND
Dibromodiphenyl ether	-	mg/kg	5	ND
Tribromodiphenyl ether	-	mg/kg	5	ND
Tetrabromodiphenyl ether	-	mg/kg	5	ND
Pentabromodiphenyl ether	-	mg/kg	5	ND
Hexabromodiphenyl ether	-	mg/kg	5	ND
Heptabromodiphenyl ether	-	mg/kg	5	ND
Octabromodiphenyl ether	-	mg/kg	5	ND

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Nonabromodiphenyl ether	-	mg/kg	5	ND
Test Item(s)	Limit	Unit	MDL	Result
Decabromodiphenyl ether	-	mg/kg	5	ND
Di-butyl Phthalate (DBP)	1000	mg/kg	50	ND
Benzyl Butyl Phthalate (BBP)	1000	mg/kg	50	ND
Di-2-Ethyl Hexyl Phthalate (DEHP)	1000	mg/kg	50	ND
Diisobutyl Phthalates (DIBP)	1000	mg/kg	50	ND

Notes:

(1) The maximum permissible limit is quoted from RoHS Directive (EU) 2015/863.
IEC 62321 series is equivalent to EN 62321 series
https://www.cenelec.eu/dyn/www/f?p=104:30:1742232870351101::::FSP_ORG_ID,FSP_LANG_ID: 1258637,25

(2) The restriction of DEHP, BBP, DBP and DIBP shall apply to medical devices, including in vitro medical devices, and monitoring and control instruments,including industrial monitoring and control instruments, from 22 July 2021.

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TEST REPORT

14. Test Item: Formaldehyde Emission

Test Method: With reference to EN 717-1:2004, analysis was performed by UV-Vis.

Test Result:

Test Item(s)	Unit	MDL	Result
Formaldehyde Emission (In air)	mg/m³	0.080	ND

Notes:

(1) Reference Limit: EN13986:2004(E)

(2) Formaldehyde class E1: ≤0.124 mg/m³ air

Formaldehyde class E2: >0.124 mg/m³ air

(3) The reported result is for reference only.

******** End of report********

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