

No.: SHIN2012083936CM-03

Date: Apr 29, 2021

Page: 1 of 26



CUSTOMER NAME: SAIGE LONGLIFE DECKING LIMITED

ADDRESS: VICARAGE BARNS LOWER QUINTON STRATFORD UPON AVON

WARWICKSHIRE CV378SH ENGLAND

This Report supersedes the Report No. SHIN2012083936CM-02 dated: Mar. 04, 2021 issued by

SGS, original report will be invalid from today.

Sample Name : SAIGE LONGLIFE DECKING

Product Specification : 143*23mm

Material and Mark : WPC

Other Information : Grey Solid Mid-Groove

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. : NJIN2011005003ML

Ref. Standard : Please see the next page(s)

Date of Receipt : Dec 23, 2020
Testing Start Date : Dec 23, 2020
Testing End Date : Apr 29, 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.

Erin Huang

Authorized signatory





No.: SHIN2012083936CM-03

Date: Apr 29, 2021

Page: 2 of 26

Summary of Results:

| No. | Test Item | Test Method | Re | Result | |
|-----------|--|---|------------------------------------|---|---|
| 1 | Pendulum Test | BS 7976-2:2002+A1:2013 | See | See result | |
| 2 | Nail Withdrawal | EN 15534-1:2014+A1:2017 & EN 13446:2002 | See | See result | |
| 3 | Swelling in Thickness after Immersion in Water | EN 317:1993 | 0. | 0.2% | |
| 4 | Flexural Strength and Modulus of Elasticity | ISO 178:2019 | See | result | / |
| 5 | Charpy Notched Impact Strength | BS EN ISO 179-1:2010 | | kJ/m² lete break) | / |
| 6 | Charpy Unnotched Impact Strength | BS EN ISO 179-1:2010 | 8.8kJ/m² C (Complete break) | | / |
| 7 | Density | EN ISO 1183-1:2019 Method A | 1.401g/cm ³ | | / |
| 8 | Flexural Test at Specified Temperature | EN ISO 178:2019 Method A | Flexural Strength Flexural Modulus | 79.7MPa 7610MPa | / |
| 9 | Tensile Modulus | EN ISO 527-1:2019 & EN ISO 527-2:2012 | 4660 | OMPa | / |
| | | EN ISO 527-1:2019 & EN | Tensile Strength | 28.4MPa | |
| 10 | 10 Tensile Test | ISO 527-2:2012 | Tensile Strain at Break | 1.3% | / |
| 11 | Mean Coefficient of Linear Thermal | ISO 11359-1:2014 & ISO 11359-2:1999 Method A | Length | 35×10 ⁻⁶ K ⁻¹ 88×10 ⁻⁶ | / |
| Expansion | | 11339-2.1999 Method A | Width | 88×10 ⁻⁵ K ⁻¹ | |



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No.: SHIN2012083936CM-03

Date: Apr 29, 2021

Page: 3 of 26

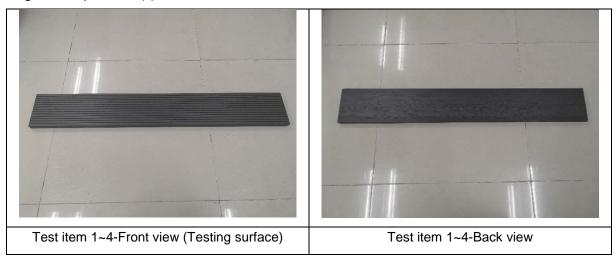
| Hot Nut Test | BS 5287:1988 | See result | / |
|-----------------------|---|--|--|
| | With reference to IEC 62321-4:2013+AMD1:2017. | | |
| RoHS | IEC 62321-5:2013, IEC | See result | / |
| 13 RoHS | 62321-7-2:2017, IEC | Occ result | , |
| | 62321-6:2015 and IEC | | |
| | 62321-8:2017 | | |
| Formaldehyde Emission | With reference to EN 717-1:2004 | ND | / |
| | RoHS | With reference to IEC 62321-4:2013+AMD1:2017, IEC 62321-5:2013, IEC 62321-7-2:2017, IEC 62321-6:2015 and IEC 62321-8:2017 With reference to EN | With reference to IEC 62321-4:2013+AMD1:2017, IEC 62321-5:2013, IEC 62321-7-2:2017, IEC 62321-6:2015 and IEC 62321-8:2017 With reference to EN ND |

Note: Pass: Meet the requirements;

Fail: Does not meet the requirements;

/: Not Apply to the judgment.

Original Sample Photo(s):





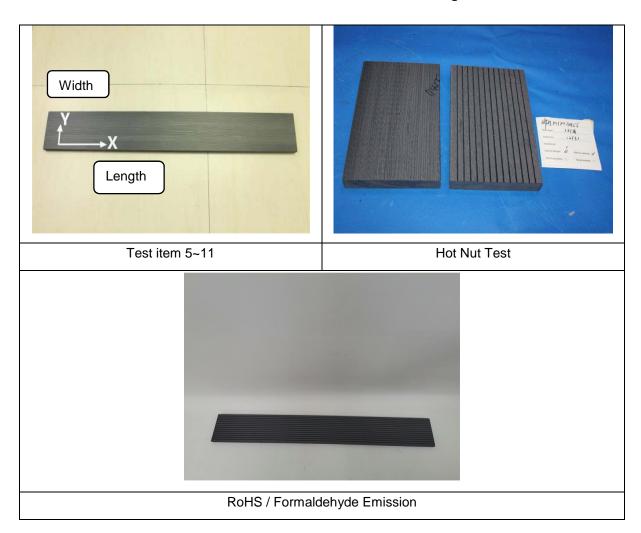
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No.: SHIN2012083936CM-03

Date: Apr 29, 2021

Page: 4 of 26







No.: SHIN2012083936CM-03

Date: Apr 29, 2021

Page: 5 of 26

1. Test Item: Pendulum Test

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

Test Condition:

Specimen: 200mm×143mm×23mm, 8pcs

Test Condition: Dry and wet

Testing Surface: Front view and back view

Test direction: Parallel to the length for front view and dry of back view, Perpendicular to the length

for wet of back view

Test temperature: 23°C

Slider type: TRL

Temperature corrections for PTV: No correction

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

Test result:

| | Test Result | | | | | | | |
|-----------------|-------------|----|----|-----|----|------------|------------------|--|
| Test Item | | | D | ΓV | | Average of | PTV (Temperature | |
| | | | Г | I V | | PTV | corrections) | |
| Pendulum test – | Dry | 59 | 61 | 62 | 63 | 61 | 61 | |
| Front view | Wet | 46 | 45 | 46 | 44 | 45 | 45 | |
| Pendulum test – | Dry | 48 | 47 | 44 | 43 | 46 | 46 | |
| Back view | Wet* | 39 | 40 | 40 | 40 | 40 | 40 | |

Note: Test specimens were cut from original sample. The result for wet of back view is based on the re-test of the second delivery of the sample.





No.: SHIN2012083936CM-03

Date: Apr 29, 2021

Page: 6 of 26

2. Test Item: Nail withdrawal

Test Method: EN 15534-1:2014+A1:2017 & 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 result | | | | | | | | | |
|------------|----------------------|-------------|------|------|--------------------|------|------|------|-----|--|--|
| Test | item | | | Ave. | Standard deviation | | | | | | |
| | d (mm) | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 | / | | |
| Nail | I _p (mm) | 22.8 | 22.7 | 22.8 | 22.8 | 22.9 | 22.7 | 22.8 | / | | |
| withdrawal | ρ (g/cm³) | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | / | | |
| | F _{max} (N) | 6084 | 6084 | 5956 | 6178 | 5269 | 4409 | 5663 | 698 | | |
| | f (N/mm²) | 66.7 | 67 | 65.3 | 67.7 | 57.5 | 48.6 | 61.2 | 7.6 | | |

Note: Test specimens were cut from original sample.





No.: SHIN2012083936CM-03

Date: Apr 29, 2021

Page: 7 of 26

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

Test Method: EN 317:1993

Test Condition:

Specimen: 50mm×50mm×23mm, 8pcs

Immersion in water: 24h

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

Test result:

| Test Item | Test result | | | | | | | | |
|-----------------------|-------------|---------------|-----|-----|-----|-----|-----|-----|-----|
| Tool Rom | | Average value | | | | | | | |
| Swelling in Thickness | | | | | | | | | |
| after Immersion in | 0.2 | 0.2 | 0.1 | 0.2 | 0.2 | 0.2 | 0.1 | 0.2 | 0.2 |
| Water (%) | | | | | | | | | |

Note: Test specimens were cut from original sample.





No.: SHIN2012083936CM-03

Date: Apr 29, 2021

Page: 8 of 26

4. Test Item: Flexural Strength and Modulus of Elasticity

Test Method: ISO 178:2019

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

Test Condition:

1) Specimen: 500mm×143mm×23mm, 5pcs

Test Span: 300mm
Test Rate: 6.5mm/min

Test result:

| Test item | Test result | | | | | | |
|-----------------------------|-------------|---------------|------|------|------|------|--|
| restitem | | Average value | | | | | |
| Flexural Strength (MPa) | 56.3 | 56.3 | 55.7 | 53.8 | 56.4 | 55.7 | |
| Modulus of Elasticity (MPa) | 3852 | 4453 | 4404 | 4467 | 4505 | 4336 | |

2) Specimen: 500mm×143mm×23mm, 5pcs

Test Span: 350mm
Test Rate: 8.9mm/min

Test result:

| Test item | Test result | | | | | |
|-----------------------------|-------------|---------------|------|------|------|------|
| r ost itom | | Average value | | | | |
| Flexural Strength (MPa) | 58.9 | 57.2 | 57.5 | 55.2 | 54.4 | 56.6 |
| Modulus of Elasticity (MPa) | 5230 | 4829 | 4847 | 4542 | 5192 | 4928 |

3) Specimen: 500mm×143mm×23mm, 5pcs

Test Span: 400mm
Test Rate: 11.6mm/min

Test result:

| Test item | Test result | | | | | | |
|-----------------------------|-------------|---------------|------|------|------|------|--|
| T GOT HOM | | Average value | | | | | |
| Flexural Strength (MPa) | 56.1 | 56.1 | 55.6 | 58.0 | 56.5 | 56.5 | |
| Modulus of Elasticity (MPa) | 4603 | 4698 | 4409 | 4863 | 4712 | 4657 | |

Note: Test specimens were cut from original sample.



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No.: SHIN2012083936CM-03

Date: Apr 29, 2021

Page: 9 of 26

5. Test Item: Charpy Notched Impact Strength

Test Method: BS EN ISO 179-1:2010

Test Condition:

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

Specimen thickness:4.10 mm

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 | 3.0kJ/m² | | |
| | C (Complete break) | | |

Note: Test specimens were cut from the sample.





No.: SHIN2012083936CM-03

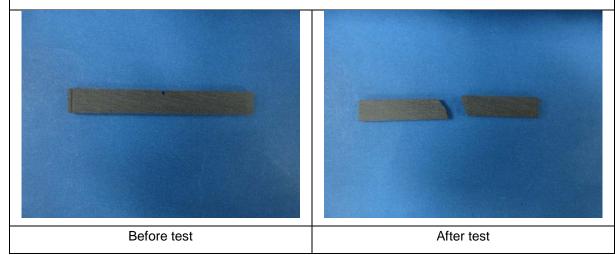
Date: Apr 29, 2021

Page: 10 of 26

Test Photos:



During test







No.: SHIN2012083936CM-03

Date: Apr 29, 2021

Page: 11 of 26

6. Test Item: Charpy Unnotched Impact Strength

Test Method: BS EN ISO 179-1:2010

Test Condition:

Specimen: ISO 179-1/1eU
Specimen thickness: 4.11mm
The capacity of the pendulum: 1J

Impact speed: 2.9m/s

Span: 62mm

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

Test Result:

| Test Item | Test Result | | |
|------------------------------------|----------------------|--|--|
| Charay I Innatahad Impact Strangth | 8.8kJ/m ² | | |
| Charpy Unnotched Impact Strength | C (Complete break) | | |

Note: Test specimens were cut from the sample.





No.: SHIN2012083936CM-03

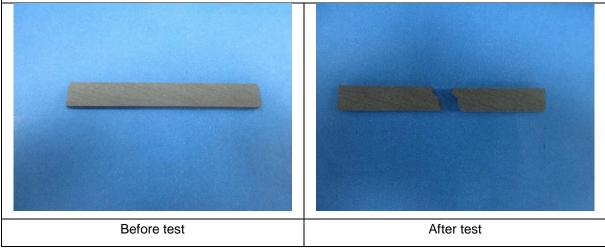
Date: Apr 29, 2021

Page: 12 of 26

Test Photos:



During test







No.: SHIN2012083936CM-03

Date: Apr 29, 2021

Page: 13 of 26

7. Test Item: Density

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

Test Condition:

Absolute alcohol, 23 \pm 0.5 $^{\circ}$ C

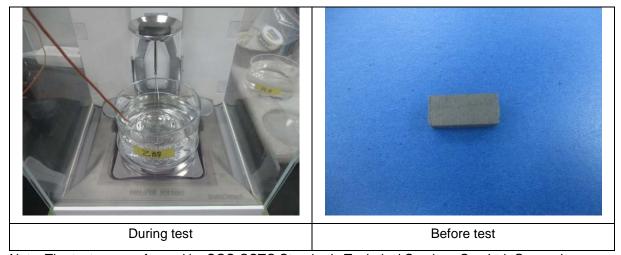
Lab Environmental Condition: 23±2°C, 50±5%RH

Test Result:

| Test Item | Test Result |
|-----------|------------------------|
| Density | 1.401g/cm ³ |

Note: Test specimens were cut from the sample.

Test Photos:







No.: SHIN2012083936CM-03

Date: Apr 29, 2021

Page: 14 of 26

8. Test Item: Flexural Test at Specified Temperature

Test Method: EN ISO 178:2019 Method A

Test Condition:

Specimen: 80mm×10.28mm×4.07mm

Test condition: -35°C, 2h→-35°C

Testing speed: 2mm/min

Span: 64mm

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

Test Result:

| Test Item | Test Result |
|-------------------|-------------|
| Flexural Strength | 79.7MPa |
| Flexural Modulus | 7610MPa |

Note:

- 1. Test specimens were cut from the sample.
- 2. The smooth surface was faced to the loading.



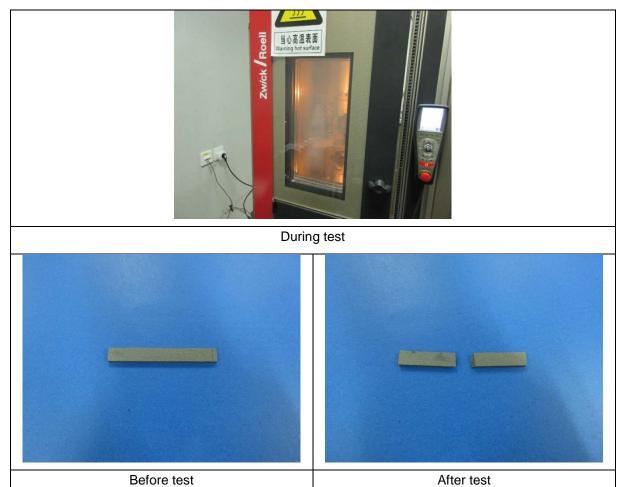


No.: SHIN2012083936CM-03

Date: Apr 29, 2021

Page: 15 of 26

Test Photos:







No.: SHIN2012083936CM-03

Date: Apr 29, 2021

Page: 16 of 26

9. Test Item: Tensile Modulus

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

Test Condition:

Specimen: Type 1B

Specimen thickness: 3.62mm Testing speed: 1 mm/min Gauge length: 50 mm

Initial distance between grips: 115 mm

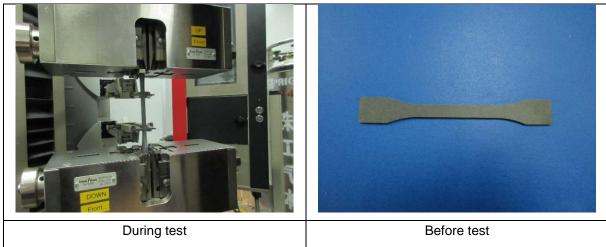
Lab Environmental Condition: 23±2°C, 50±5%RH

Test Result:

| Test Item | Test Result |
|-----------------|-------------|
| Tensile Modulus | 4660MPa |

Note: Test specimens were cut from the sample.

Test Photos:



Note: The test was performed by SGS-CSTC Standards Technical Services Co., Ltd. Guangzhou Branch Testing Center.



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No.: SHIN2012083936CM-03

Date: Apr 29, 2021

Page: 17 of 26

10. Test Item: Tensile Test

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

Test Condition:

Specimen: Type 1B

Specimen thickness: 3.62mm Testing speed: 5mm/min

Gauge length: 50 mm

Initial distance between grips: 115 mm

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

Test Result:

| Test Item | Test Result |
|-------------------------|-------------|
| Tensile Strength | 28.4MPa |
| Tensile Strain at Break | 1.3% |

Note: Test specimens were cut from the sample.





No.: SHIN2012083936CM-03

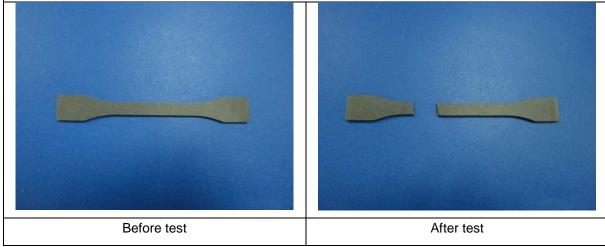
Date: Apr 29, 2021

Page: 18 of 26

Test Photos:



During test







No.: SHIN2012083936CM-03

Date: Apr 29, 2021

Page: 19 of 26

11. Test Item: Mean Coefficient of Linear Thermal Expansion
Test Method: ISO 11359-1:2014 & ISO 11359-2:1999 Method A

Test Condition:

Length - Specimen: 8.60 mm ×5.19 mm ×4.96 mm Width - Specimen: 9.28 mm ×5.36 mm ×4.91 mm

Rate of temperature: 5 °C/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°C, 50±5%RH

Test Result:

| Test Item | Test Result | | |
|--|-------------|-------------------------------------|--|
| Mean Coefficient of Linear Thermal Expansion | Length | 35×10 ⁻⁶ K ⁻¹ | |
| | Width | 88×10 ⁻⁶ K ⁻¹ | |

Note: Test specimens were cut from the sample.



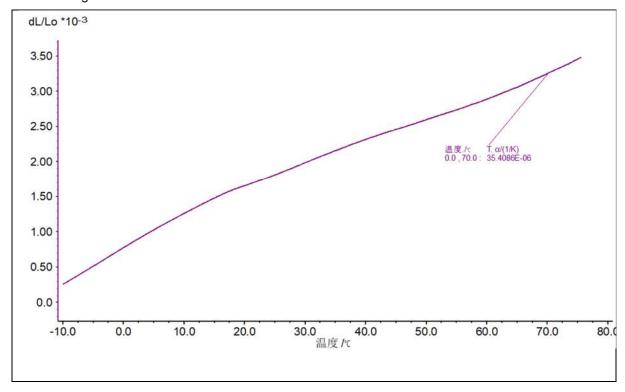


No.: SHIN2012083936CM-03

Date: Apr 29, 2021

Page: 20 of 26

Curve - Length:





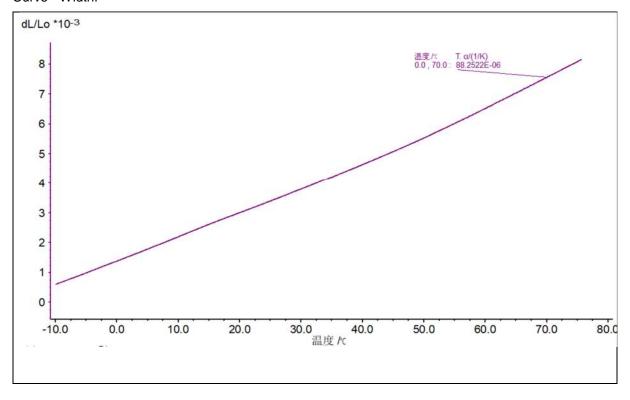


No.: SHIN2012083936CM-03

Date: Apr 29, 2021

Page: 21 of 26

Curve - Width:







No.: SHIN2012083936CM-03

Date: Apr 29, 2021

Page: 22 of 26

Test Photos:



During test







No.: SHIN2012083936CM-03

Date: Apr 29, 2021

Page: 23 of 26

12. Test Item: Hot Nut TestTest Method: BS 5287:1988

I. Sample details

| Sample description / Color | Saige Long Life Decking / Dark Grey |
|----------------------------|-------------------------------------|
| Size of sample | 300mm×300mm, 3pcs |

Conditioning: prior to the test, the specimens were conditioned in the atmosphere at a temperature of 20 ± 2 °C and a humidity of 65 ± 2 % for at least 24 h.

II. Test conducted

Methods of mounting test specimen:

| Specimen No. | 1 | 2 | 3 |
|---|-----|-----|-----|
| Duration of flame (s) | 107 | 93 | 125 |
| Afterglow and / or smouldering (s) | 0 | 0 | 0 |
| Time for the effects of ignition to reach the clamping ring (s) | NA | NA | NA |
| The greatest radius to the nearest 5 mm of the affected area (mm) | 15 | 20 | 15 |
| Whether the specimen ignites or not (Yes / No) | Yes | Yes | Yes |

Remark: NA---Not applicable, the ignition did not reach the clamping ring

Comments (BS 5287:1988):

The radius of affected area is less than 35 mm, which can be described as "low radius of effects of ignition", indicates that if the material is ignited from a small source such as lighted match or a glowing coal, it will not spread flame under normal conditions in the absence of supporting thermal radiation. Statements: The test results related only to the bahaviour of the test specimens after application of a small source of ignition. They shall not be used as a means of assessing how the product will contribute to an established fire.

Note: The test was performed by SGS-CSTC Standards Technical Services Co., Ltd. Anji Branch Testing Center.



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No.: SHIN2012083936CM-03

Date: Apr 29, 2021

Page: 24 of 26

13. Test Item: RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU Test Part Description: Black solid piece

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

| Test Item(s) | Limit | Unit | MDL | Result |
|------------------------------|-------|-------|-----|--------|
| Cadmium (Cd) | 100 | mg/kg | 2 | ND |
| Lead (Pb) | 1000 | mg/kg | 2 | 46 |
| 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 |
| Nonabromodiphenyl ether | - | mg/kg | 5 | ND |



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No.: SHIN2012083936CM-03

Date: Apr 29, 2021

Page: 25 of 26

| 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 |

Remarks:

- (1) 1 mg/kg = 0.0001%
- (2) MDL = Method Detection Limit
- (3) ND = Not Detected (< MDL)
- (4) "-" = Not Regulated

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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No.: SHIN2012083936CM-03

Date: Apr 29, 2021

Page: 26 of 26

Test Item: Formaldehyde Emission
 Test Part Description: Black solid piece

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

Test Item(s)

Unit MDL Result
Formaldehyde Emission (In air)

mg/m³ 0.080 ND

Remarks:

(1) 1 mg/kg = 0.0001%

(2) MDL = Method Detection Limit

(3) ND = Not Detected (< MDL)

(4) "-" = Not Regulated

Notes:

(1) Reference Limit: EN 13986:2004(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******

