

TEST REPORT



REPORT NO. : HV-19-00692

PAGE : 1 OF 4

REPORT DATE : Mar. 04, 2019

NANO4LIFE EUROPE L.P.

Product Name: NANODIAMOND4-CARPAINT
Product Type: ANTISCRTCH COATING
Product Color: TRANSPARENT
Manufacturer: NANO4LIFE EUROPE L.P.
Supplier: NANO4LIFE EUROPE L.P.
Buyer/Order No. : 10011901
Product Submitted By: NANO4LIFE EUROPE L.P.
Date of Receive: FEBRUARY 12, 2019
Date of Testing: FEBRUARY 12, 2019 ~ MARCH 04, 2019
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

=====

The laboratory tests according to the test requests and samples provided by client, and the results are as follows:

- Test Required :
- 1. Alkali Resistance
 - 2. Acid Resistance
 - 3. Salt-Water Resistance
 - 4. Heavy Metal Analysis

Test Method : Please see attached sheets

Test Result : Please see attached sheets

----- 1 -----

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.**

TEST REPORT

REPORT NO. : HV-19-00692

PAGE : 2 OF 4

REPORT DATE : Mar. 04, 2019

1. Alkali Resistance

Test Method :

JIS K5400(1990)

Test Method for Paints

Test Condition :

Test Reagent :

5% Na₂CO₃

Test Temperature :

23°C

Test Time :

24 hours

Test Result :

| Test Item(s) | Test Result(s) |
|-------------------|--|
| Alkali Resistance | There is no abnormality even immersed in Alkali. |

2. Acid Resistance

Test Method :

JIS K5400(1990)

Test Method for Paints

Test Condition :

Test Reagent :

5% H₂SO₄

Test Temperature :

23°C

Test Time :

24 hours

Test Result :

| Test Item(s) | Test Result(s) |
|-----------------|--|
| Acid Resistance | There is no abnormality even immersed in Acid. |

----- 2 -----

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TEST REPORT



REPORT NO. : HV-19-00692

PAGE : 3 OF 4

REPORT DATE : Mar. 04, 2019

3. Salt-Water Resistance

Test Method :

JIS K5400(1990)

Test Method for Paints

Test Condition :

Test Reagent :

5% NaCl solution

Test Temperature :

23°C

Test Time :

96 hours

Test Result :

| Test Item(s) | Test Result(s) |
|-----------------------|--|
| Salt-Water Resistance | There is no abnormality even immersed in sodium chloride solution. |

4. Heavy Metal Analysis

Test Result :

| Test Item(s) | Unit | Method | MDL | Result No.1 |
|-----------------------|-------|--|-----|----------------|
| Lead(Pb) | mg/kg | With reference to CPSC-CH-E1003-09.1 (2011). Analysis was performed by ICP-AES. | 2 | n.d. |
| Soluble Arsenic (As) | mg/kg | With reference to ASTM F963(2017) Clause 8.3. Analysis was performed by ICP-AES. | 2.5 | n.d. |
| Soluble Barium (Ba) | mg/kg | | 10 | n.d. |
| Soluble Cadmium (Cd) | mg/kg | | 5 | n.d. |
| Soluble Chromium (Cr) | mg/kg | | 5 | n.d. |
| Soluble Mercury (Hg) | mg/kg | | 5 | n.d. |
| Soluble Lead (Pb) | mg/kg | | 5 | n.d. |
| Soluble Antimony (Sb) | mg/kg | | 5 | n.d. |
| Soluble Selenium (Se) | mg/kg | | 5 | n.d. |

Note : 1. mg/kg = ppm ; 0.1wt% = 1000ppm
 2. n.d. = Not Detected
 3. MDL = Method Detection Limit

----- 3 -----

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Material and Engineering Laboratory-Taipei

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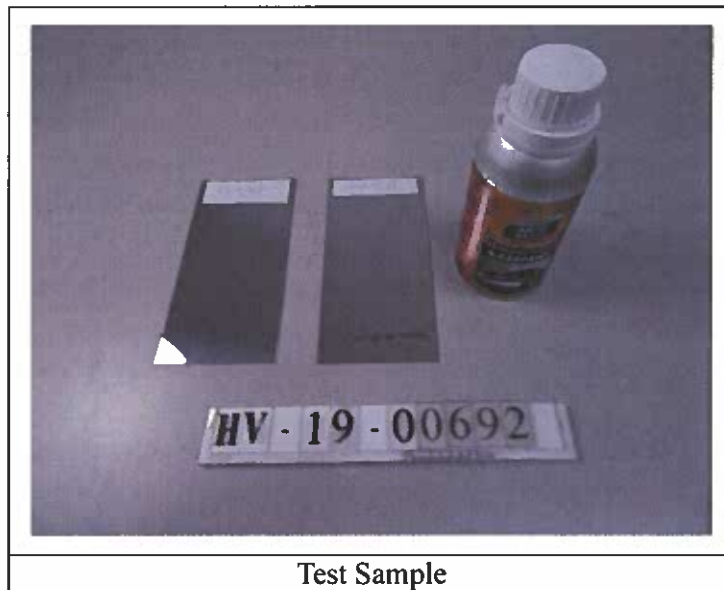


REPORT NO. : HV-19-00692

PAGE : 4 OF 4

REPORT DATE : Mar. 04, 2019

Sample Photo :



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