

Test Report

No.: VNSL2404010270TX-01

Date: May 07, 2024

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This report cancels and supersedes the report No. **VNSL2404010270TX** dated **Apr 10, 2024** issued by SGS Vietnam Ltd

ENGINEERED CUSTOM COATINGS

1002 HICKORY ST. PEWAUKEE WI 53072

The following sample was submitted and on behalf of the client as:

| Sample No. | Sample Description |
|------------|-------------------------------------|
| A | 41-0311 Defender Repellent RSL Test |

Color Submitted : /

Country of Origin : Vietnam

Country of Destination : Global

Sample Receiving Date : Apr 02, 2024 PM. Confirmation Date: Apr 05, 2024

Test Performing Period : Apr 05, 2024 - Apr 10, 2024

Performed Test Summary : Selected test(s) as requested by applicant against Client's specified requirement.

Test Results : Please refer to the next page(s).

Conclusion : PASS

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Chemical Tests:

Overall Result

| | (A) |
|--|-----|
| Free Formaldehyde | M |
| Total Cadmium | M |
| Total Lead on Substrate | M |
| Total Arsenic | M |
| Organotin Compounds | M |
| Phthalates | M |
| SVHC | N/A |
| Toy Safety Test | N/A |
| Total Fluorine Screening | M |
| Perfluorooctanesulfonate (PFOS) · its salts and PFOS-related substances Content | |
| PFOA, its salts and PFOA-related substances. | M |
| C9-C14 linear and branched Perfluorocarboxylic acids (PFCA), its salts and PFCA-related substances Content | |
| Organic Solvents | M |
| Alkylphenols (AP) & Alkylphenol Ethoxylates (APEO) | M |
| Dimethyl Formamide (DMFa) | N/A |
| N,N-Dimethylacetamide (DMAC)& 1-Methyl-2-pyrrolidone (NMP) | M |
| Synthetic Polymer Microplastics | N/A |

Remarks: M = Meets Client's requirement
F = Below Client's requirement
N/A = Not Applicable

Note: Conclusions on pass/fail are based on the test result from the actual sampling of the received sample(s).

Signed for and on behalf of
SGS Vietnam LTD



Rhodora Quinto
Softlines Lab Manager

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Component List / List of Material

| Sample No. | Component | Material | Color | Fiber Type | Remark |
|------------|--------------------|----------|-------------|------------|--------|
| A1 | Transparent liquid | Liquid | Transparent | - | - |

PHOTO OF SUBMITTED SAMPLE



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Test Results:

Free Formaldehyde (*)

Test Method: In-house method of steam distillation, Analysis was performed by UV/VIS spectrophotometer.

| | | Result (mg/kg) |
|-------------------|----------------|---------------------------|
| | CAS-No. | A1 |
| Formaldehyde | 50-00-0 | n.d. |
| Conclusion | -- | PASS |

Note: n.d. = not detected
mg/kg = ppm
Reporting Limit = 5 mg/kg

Client's Requirement:

< 36 months 16 mg/kg
> 36 months 75 mg/kg
Packaging 150 mg/kg

Total Cadmium (*)

Test Method: In-house method. Analysis was performed by ICP-OES.

| | | Result (mg/kg) |
|-------------------|----------------|---------------------------|
| | CAS-No. | A1 |
| Cadmium (Cd) | 7440-43-9 | n.d. |
| Conclusion | -- | PASS |

Note: n.d. = not detected
mg/kg = ppm
Reporting Limit = 5 mg/kg

Client's Requirement: 40 mg/kg

Total Lead on substrate

Test Method: Non-metallic materials: With reference to CPSC-CH-E1002-08.3.
Analysis was performed by ICP-MS.

| | | Result (mg/kg) |
|-------------------|----------------|---------------------------|
| | CAS-No. | A1 |
| Lead (Pb) | 7439-92-1 | n.d. |
| Conclusion | -- | PASS |

Note: n.d. = not detected
mg/kg = ppm
Composite test has been performed and the result is calculated using the minimum sample weight.
Reporting Limit: 20 mg/kg

Client's Requirement: 60 mg/kg (others)

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Total Arsenic (*)

Test Method: With reference to QB/T 4340-2012. Analysis was performed by ICP-MS.

| | | Result (mg/kg) |
|-------------------|----------------|---------------------------|
| | CAS-No. | A1 |
| Arsenic (As) | 7440-38-2 | n.d. |
| Conclusion | | PASS |

Note: n.d. = not detected
mg/kg = ppm
Reporting Limit: 20 mg/kg

Client's Requirement: 100 mg/kg

Organotin Compounds (*)

Test Method: With reference to ISO/TS 16179:2012. Analysis was performed by GC-MS.

| | | Result (mg/kg) |
|-------------------------|----------------|---------------------------|
| | CAS-No. | A1 |
| Tributyltin (TBT) | -- | n.d. |
| Triphenyltin (TPhT) | -- | n.d. |
| Dibutyltin (DBT) | -- | n.d. |
| Diocetyl tin (DOT) | -- | n.d. |
| Monobutyltin (MBT) | -- | n.d. |
| Tripropyltin (TPT) | -- | n.d. |
| Trimethyltin (TMT) | -- | n.d. |
| Tricyclohexyltin (TCyT) | -- | n.d. |
| Triocetyl tin (TOT) | -- | n.d. |
| Conclusion | | PASS |

Notes: n.d. = not detected
mg/kg = ppm
Reporting limit = 0.02 mg/kg

Client's Requirement:

| | |
|--------------------------------|----------------------------------|
| TBT | 0.05 mg/kg < 24 months |
| TPhT | 0.5 mg/kg > 24 months |
| DBT, DOT, TPT, MBT, TMT | 0.5 mg/kg |
| TCyT, TOT | 1.0 mg/kg (each) |
| | 1.0 mg/kg (each) |

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Phthalates

Test Method: With reference to CPSC-CH-C1001-09.4. Analysis was conducted by GC-MS.

| | | Result (mg/kg) |
|---|----------------------------|---------------------------|
| | CAS-No. | A1 |
| Dibutylphthalate (DBP) | 84-74-2 | n.d. |
| Bis-(2-ethylhexyl)phthalate (DEHP) | 117-81-7 | n.d. |
| Benzylbutylphthalate (BBP) | 85-68-7 | n.d. |
| Di-isononylphthalate (DINP) | 28553-12-0 / 68515-48-0 | n.d. |
| Di-n-octylphthalate (DNOP) | 117-84-0 | n.d. |
| Di-isodecylphthalate (DIDP) | 26761-40-0/ 68515-49-1 | n.d. |
| Di-n-Hexylphthalate (DnHP/ DHEXP) | 84-75-3 | n.d. |
| Di-iso-butylphthalate (DIBP) | 84-69-5 | n.d. |
| Di-n-pentyl phthalate (DPENP) | 131-18-0 | n.d. |
| Dicyclohexyl Phthalate (DCHP) | 84-61-7 | n.d. |
| Diethylphthalate (DEP) | 84-66-2 | n.d. |
| Di-C6-8-branched alkylphthalates (DIHP) | 71888-89-6 | n.d. |
| Di-C7-11-branched alkylphthalates (DHNUP) | 68515-42-4 | n.d. |
| Bis(2-methoxyethyl) phthalate (DMEP) | 117-82-8 | n.d. |
| 1,2-Benzenedicarboxylic acid, dipentylester, branched and linear (DPP) | 84777-06-0 | n.d. |
| N-pentyl-isopentyl phthalate (NPIPP) | 776297-69-9 | n.d. |
| Diisopentylphthalate (DIPP) | 605-50-5 | n.d. |
| Dimethyl Phthalate (DMP) | 131-11-3 | n.d. |
| Dipropyl Phthalate (DPrP) | 131-16-8 | n.d. |
| Diisooctyl Phthalate (DIOP) | 27554-26-3 | n.d. |
| Di-hexylphthalate, branched and linear (DHxP) | 68515-50-4 | n.d. |
| Di-iso-hexylphthalate (DIHxP) | 71850-09-4 | n.d. |
| Conclusion | -- | PASS |

Notes: n.d. = not detected
mg/kg = ppm
Reporting Limit: 50 mg/kg (for individual compound)

**Client's Requirement: 500 mg/kg (Each)
1000 mg/kg (Sum)**

SVHC

Not Applicable

Toy Safety Test

Not Applicable

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Total Fluorine Screening

Test Method: Test Method: With reference to EN 14582:2016. Analysis was conducted by Ion Chromatography.

| | | Result (mg/kg) |
|-------------------|----------------|---------------------------|
| | CAS-No. | A1 |
| Fluorine content | -- | n.d. |
| Conclusion | -- | PASS |

Notes: n.d. = not detected
mg/kg = ppm
Reporting limit = 50 mg/kg

Client's Requirement: 50 mg/kg

Remark: If detected over 50 ppm additional documentation such as MSDS, testing of All targeted PFAS chemicals will be requested by Buyer's compliance team.

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Perfluorooctanesulfonate (PFOS), its salts and PFOS-related substances Content
PFOA, its salts and PFOA-related substances
C9-C14 linear and branched Perfluorocarboxylic acids (PFCA), its salts and PFCA-related substances
Content

Test Method: With reference to EN ISO 23702-1:2018. Analysis was conducted by HPLC-MS, HPLC-MS/MS and GC-MS.

| | CAS-No. | Result |
|--|----------------|---------------|
| | | A1 |
| PFOS and its salts | | |
| Perfluorooctanesulfonic acid (PFOS)^ | 1763-23-1 | n.d. |
| PFOS and related substances | | |
| N-ethylperfluoro-1-octanesulfonamide (EtFOSA) | 4151-50-2 | n.d. |
| N-methylperfluoro-1-octanesulfonamide (MeFOSA) | 31506-32-8 | n.d. |
| 2-(N-ethylperfluoro-1-octanesulfonamido)-ethanol (EtFOSE) | 1691-99-2 | n.d. |
| 2-(N-methylperfluoro-1-octanesulfonamido)-ethanol (MeFOSE) | 24448-09-7 | n.d. |
| Perfluorooctane sulfonamide (PFOSA) | 754-91-6 | n.d. |
| PFOA and its salts | | |
| Perfluorooctanoic acid (PFOA)+ | 335-67-1 | n.d. |
| PFOA-related Substances | | |
| 1H,1H,2H,2H-Perfluoro-1-decanol (8:2 FTS) | 39108-34-4 | n.d. |
| Methyl perfluorooctanoate (Me-PFOA) | 376-27-2 | n.d. |
| Ethyl perfluorooctanoate (Et-PFOA) | 3108-24-5 | n.d. |
| 2-Perfluorooctylethanol (8:2 FTOH) | 678-39-7 | n.d. |
| 1H,1H,2H,2H-Perfluorodecyl acrylate (8:2 FTA) | 27905-45-9 | n.d. |
| 1H,1H,2H,2H-Perfluorodecyl methacrylate (8:2 FTMA) | 1996-88-9 | n.d. |
| Perfluoro-1-iodooctane (PFOI) | 507-63-1 | n.d. |
| Sum of PFOA-related substances | -- | n.d. |
| C9-C14 PFCAs and their salts | | |
| Perfluorononane Acid (PFNA)^ | 375-95-1 | n.d. |
| Perfluorodecane Acid (PFDA)^ | 335-76-2 | n.d. |
| Perfluoroundecanoic Acid (PFUnA) | 2058-94-8 | n.d. |
| Perfluorododecanoic Acid (PFDoA)^ | 307-55-1 | n.d. |
| Perfluorotridecanoic Acid (PFTrA) | 72629-94-8 | n.d. |
| Perfluorotetradecanoic Acid (PFTeA) | 376-06-7 | n.d. |
| Perfluoro-3,7-dimethyloctanoic Acid (PF-3,7-DMOA) | 172155-07-6 | n.d. |
| Total of C9-C14 PFCAs and its salts | -- | n.d. |
| C9-C14 PFCA-related substances | | |
| Perfluorodecane sulfonic Acid (PFDS)@ | 335-77-3 | n.d. |
| 1H,1H,2H,2H-Perfluorododecylacrylate (10:2 FTA) | 17741-60-5 | n.d. |
| 1H,1H,2H,2H-Perfluoro-1-dodecanol (10:2 FTOH) | 865-86-1 | n.d. |
| Total of C9-C14 PFCA-related substances | -- | n.d. |
| PFHxS and its salts | | |
| Perfluorohexanesulfonic acid (PFHxS) Note 4 | 355-46-4 | n.d. |
| PFHxS-related substances | | |
| N-Methylperfluoro-1-hexane sulfonamide (N-Me-FHxSA) | 68259-15-4 | n.d. |
| Perfluorohexane sulfonamide (PFHxSA) | 41997-13-1 | n.d. |
| Total of PFHxS-related substances | -- | n.d. |
| Conclusion | -- | PASS |

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Note: ND = Not detected
 mg/kg = ppm
 1 mg/kg = 1000 ppb
 ^ PFOS refer to its salts / derivative including PFOS-K (CAS No.: 2795-39-3) , PFOS-Li (CAS No.: 29457-72-5), PFOS-NH₄ (CAS No.: 29081-56-9), PFOS-NH(OH)₂ (CAS No.: 70225-14-8), PFOS-N(C₂H₅)₄ (CAS No.: 56773-42-3), PFOS-N(C₁₀H₂₁)₂(CH₃)₂ (CAS No. 251099-16-8) and POSF (CAS No.: 307-35-7)
 + PFOA refer to its salts including PFOA-Na (CAS No.: 335-95-5), PFOA-K (CAS No.: 2395-00-8), PFOA-Ag (CAS No.: 335-93-3), PFOA-F (CAS No.: 335-66-0) and APFO (CAS No.: 3825-26-1)
 ^ PFNA refer to its salts including PFNA-Na (CAS No.: 21049-39-8), APFN (CAS No.: 4149-60-4), PFDA-Na (CAS No. 3830-45-3), APFDA (CAS no: 3108-42-7), PFD_oA-NH₄ (CAS No.: 3793-74-6)
 @ PFDS refer to its salts including PFDS-Na (CAS No.: 2806-15-7), PFDS-K (CAS No.: 2806-16-8), PFDS-NH₄ (CAS No.: 67906-42-7)
 4PFHxS refers to its salts including PFHxS-Na (CAS No. 82382-12-5), PFHxS-K (CAS No. 3871-99-6), PFHxS-Li (CAS No. 55120-77-9) and PFHxS-NH₄ (CAS No. 68259-08-5)

Reporting limit:

PFOS and its salts & PFOS-related substances
 Textile / Coated Material = 1 µg/m² (each)
 Others = 1 mg/kg (each)
 PFOA and its salts = 0.025 mg/kg
 PFOA related substances = 1 mg/kg
 C9-C14 PFCA and its salts = 0.010 mg/kg (each)
 C9-C14 PFCA-related substances = 0.1 mg/kg (each)
 PFHxS and its salts = 0.01 mg/kg (each)
 PFHxS-related substances = 0.10 mg/kg (each)

Requirement:

| | |
|---|---|
| PFOS and its salts & PFOS-related substances | 1 µg/m² (each) (Textile/coated materials) |
| PFOA and its salts | 1000 mg/kg (each) Others |
| PFOA-related substances | 0.025 mg/kg (sum) |
| C9-C14 PFCA and its salts | 1 mg/kg (sum) |
| C9-C14 PFCA-related substances | 0.025 mg/kg (sum) |
| 9-C14 PFCA-related substances | 0.26 mg/kg (sum) |
| PFHxS and its salts | 0.025 mg/kg (total) |
| PFHxS-related substances | 1 mg/kg (total) |

Remark: Recommended requirement with reference to commission regulation (EU) 2021/1297 amending Annex XVII to Regulation (EC) 1907/2006. (Effective date: 25th February 2023)

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Organic Solvents (*)

Test Method: In-house method – solvent extraction. Analysis was performed with GC-MS.

| | <u>CAS-No.</u> | <u>Result</u> |
|---------------------------|----------------------|----------------|
| | | <u>(mg/kg)</u> |
| Benzene | 71-43-2 | n.d. |
| Phenol | 108-95-2 | n.d. |
| Tetrachloroethane | 79-34-5/ 630-20-6 | n.d. |
| Toluene | 108-88-3 | 37.5 |
| Xylene | -- | 262 |
| Trichloroethylene | 79-01-6 | n.d. |
| Dichloromethane | 75-09-2 | n.d. |
| Methylphenol | 1319-77-3 | n.d. |
| Carbon Tetrachloride | 56-23-5 | n.d. |
| Chloroform | 67-66-3 | n.d. |
| Cyclohexanone | 108-94-1 | n.d. |
| 1,2-Dichloroethane | 107-06-2 | n.d. |
| 1,1-Dichloroethylene | 75-35-4 | n.d. |
| Pentachloroethane | 76-01-7 | n.d. |
| Tetrachloroethylene (PER) | 127-18-4 | n.d. |
| Ethylbenzene | 100-41-4 | n.d. |
| 1,1,1-Trichloroethane | 71-55-6 | n.d. |
| 1,1,2-Trichloroethane | 79-00-5 | n.d. |
| Carbon disulfide | 75-15-0 | n.d. |
| Conclusion | -- | PASS |

Note: n.d. = not detected
mg/kg = ppm

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| <u>Solvents</u> | <u>Client's Requirement</u> <u>(mg/kg)</u> | <u>Reporting Limit</u> <u>(mg/kg)</u> |
|---------------------------|---|--|
| Benzene | 5.0 | 1.0 |
| Phenol | 10 | 3.0 |
| Tetrachloroethane | 1000 | 5.0 |
| Toluene | 1000 | 5.0 |
| Xylene | 1000 | 5.0 |
| Trichloroethylene | 1000 | 5.0 |
| Dichloromethane | 1000 | 5.0 |
| Methylphenol | 1000 | 5.0 |
| Carbon Tetrachloride | 1000 | 5.0 |
| Chloroform | 1000 | 5.0 |
| Cyclohexanone | 1000 | 5.0 |
| 1,2-Dichloroethane | 1000 | 5.0 |
| 1,1-Dichloroethylene | 1000 | 5.0 |
| Pentachloroethane | 1000 | 5.0 |
| Tetrachloroethylene (PER) | 1000 | 5.0 |
| Ethylbenzene | 1000 | 5.0 |
| 1,1,1-Trichloroethane | 1000 | 5.0 |
| 1,1,2-Trichloroethane | 1000 | 5.0 |
| Carbon disulfide | 1000 | 5.0 |
| Sum | 1000 | - |

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Alkylphenols (AP) & Alkylphenol Ethoxylates (APEO) (*)

Test Method: In house Method – Solvent Extraction. Analysis was conducted by LC-MS

| | | Result (mg/kg) |
|--------------------------|----------------|---------------------------|
| | CAS-No. | A1 |
| Sum of Aps (NP+OP) | -- | n.d. |
| Sum of APEOs (NPEO+OPEO) | -- | n.d. |
| Sum of APs+APEOs | -- | n.d. |
| Conclusion | -- | PASS |

Note: n.d. = not detected
 mg/kg = ppm
 Reporting limit = Total AP: 3 mg/kg; Total APEO: 20 mg/kg

Client's Requirement:

APs 10 mg/kg (Sum)
APs+APEOs 100 mg/kg (Sum)

Dimethyl Formamide (DMFa)

Not Applicable

N,N-Dimethylacetamide (DMAC)& 1-Methyl-2-pyrrolidone (NMP) (*)

Test Method: All other materials: With reference to DIN CEN ISO/TS 16189:2013. Analysis was conducted by GC-MS.

| | | Result (mg/kg) |
|------------------------------|----------------|---------------------------|
| | CAS-No. | A1 |
| N,N-Dimethylacetamide (DMAC) | 127-19-5 | n.d. |
| 1-Methyl-2-pyrrolidone (NMP) | 872-50-4 | n.d. |
| Conclusion | -- | PASS |

Note: n.d. = Not detected
 mg/kg = ppm
 Reporting limit = 50 mg/kg (each)

Client's Requirement: 1000 mg/kg(each)

Synthetic Polymer Microplastics

Not Applicable

Remarks: Above tests except (*) are accredited ISO 17025: 2017 by VILAS.
 The test results are considered as conform to specification based on the general consideration simple acceptance as stated in ISO/IEC GUIDE 98-4:2012.

Report results refer to submitted sample(s) only

*** End of Report ***

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