

ENGINEERED CUSTOM COATINGS
1002 HICKORY ST, Pewaukee, WI 53072, United States

The following sample(s) was/were submitted and identified on behalf of the client as:

Sample Description : 41-0290 Defender Repellent RSL Test

Country of Origin : Vietnam

Country of Destination : Global

Sample Receiving Date : Apr 25, 2024

Testing Period : Apr 25, 2024 - May 03, 2024

Test Result(s) : Unless otherwise stated the results shown in this test report refer only to the sample(s) tested, for further details, please refer to the following page(s).

Test Performed : Selected test(s) as requested by applicant



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Conclusion	Pass	Remark
Alkylphenol Ethoxylates (APEO) and Alkylphenols(AP)	Pass	
Free Formaldehyde in Adhesion	Pass	
N,N-Dimethylacetamide (DMAC)& 1-Methyl-2-pyrrolidone (NMP)- All other materials	Pass	
Organic Solvents	Pass	
Organotins	Pass	
PFCs-Others Materials	Pass	
Phthalates	Pass	
Total Arsenic	Pass	
Total Cadmium	Pass	
Total Fluorine Screening	Pass	
Total Lead	Pass	

Remark(s) : Pass = Meet Client's Requirement

Signed for and on behalf of
 SGS-CSTC Standards Technical Services Co., Ltd. Guangzhou Branch



Koni zhang (Account Executive)



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Sample Photo



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COMPONENT LIST / List of Materials

Sample No.	Component No.	Description	Material	Color	Remark
A	1	Liquid	Liquid	Transparent	



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Test Result

Free Formaldehyde in Adhesives

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

Test Item(s)	Unit(s)	RL	1
Formaldehyde	mg/kg	5	ND
Conclusion			Pass

Remark: ND = Not Detected
 RL = Reporting Limit
Requirement:
 < 36 months: 16 mg/kg
 > 36 months: 75 mg/kg

Total Cadmium

Test Method: With reference to SGS In-House Method, analysis was performed by ICP-OES/AAS.

Test Item(s)	Unit(s)	RL	1	Req.
Cadmium(Cd)	mg/kg	5	ND	40
Conclusion			Pass	

Remark: ND = Not Detected
 RL = Reporting Limit

Total Lead in Surface Coating

Test Method: With reference to CPSC-CH-E1003-09.1, analysis was performed by AAS/ICP-OES.

Test Item(s)	Unit(s)	RL	1	Req.
Lead(Pb)	mg/kg	20	ND	60
Conclusion			Pass	

Remark: ND = Not Detected
 RL = Reporting Limit

Notes: (1) The result is calculated using the minimum sample weight.



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Total Arsenic

Test Method: With reference to QB/T 4340-2012, analysis was performed by ICP-OES.

Test Item(s)	Unit(s)	RL	1	Req.
Arsenic (As)	mg/kg	20	ND	100
Conclusion			Pass	

Remark: ND = Not Detected
RL = Reporting Limit

Organotins

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

Test Item(s)	Unit(s)	RL	1	Req.
Tributyl tin (TBT)	mg/kg	0.01	ND	0.5
Triphenyltin (TPhT)	mg/kg	0.02	ND	0.5
Dibutyl tin (DBT)	mg/kg	0.02	ND	1.0
Diocetyl tin (DOT)	mg/kg	0.02	ND	1.0
Monobutyl tin (MBT)	mg/kg	0.02	ND	1.0
Tripropyltin (TPT)	mg/kg	0.02	ND	1.0
Trimethyltin (TMT)	mg/kg	0.02	ND	1.0
Tricyclohexyl tin (TCyHT)	mg/kg	0.02	ND	1.0
Trioctyltin (TOT)	mg/kg	0.02	ND	1.0
Conclusion			Pass	

Remark: ND = Not Detected
RL = Reporting Limit



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Phthalates

Test Method: With reference to CPSC-CH-C1001-09.4, analysis was performed by GC-MS.

Test Item(s)	CAS No.	Unit(s)	RL	1	Req.
Di-butyl Phthalate (DBP)	84-74-2	mg/kg	50	ND	500
Di-2-Ethyl Hexyl Phthalate (DEHP)	117-81-7	mg/kg	50	ND	500
Benzyl Butyl Phthalate (BBP)	85-68-7	mg/kg	50	ND	500
Diisononyl Phthalate (DINP)	28553-12-0 /68515-48-0	mg/kg	50	ND	500
Di-n-octyl Phthalate (DNOP)	117-84-0	mg/kg	50	ND	500
Diisodecyl Phthalate (DIDP)	26761-40-0 /68515-49-1	mg/kg	50	ND	500
Dimethyl Phthalate (DMP)	131-11-3	mg/kg	50	ND	500
Diethyl Phthalate (DEP)	84-66-2	mg/kg	50	ND	500
Dipropyl Phthalate (DPrP)	131-16-8	mg/kg	50	ND	500
Diisobutyl Phthalate (DIBP)	84-69-5	mg/kg	50	ND	500
Di-n-pentyl Phthalate (DnPP)	131-18-0	mg/kg	50	ND	500
Di-n-hexyl Phthalate (DnHP)	84-75-3	mg/kg	50	ND	500
Dicyclohexyl Phthalate (DCHP)	84-61-7	mg/kg	50	ND	500
Diiso-octyl Phthalate (DIOP)	27554-26-3	mg/kg	50	ND	500
Bis(2-methoxyethyl) Phthalate (DMEP)	117-82-8	mg/kg	50	ND	500
Diisopentylphthalate (DiPP)	605-50-5	mg/kg	50	ND	500
N-Pentyl-isopentylphthalate (nPiPP)	776297-69-9	mg/kg	50	ND	500
Diisoheptyl phthalate (DIHP)	71888-89-6	mg/kg	50	ND	500
1,2-Benzenedicarboxylic acid, di-C7-11- branched and linear alkyl esters(DHNUP)	68515-42-4	mg/kg	50	ND	500
1,2-Benzenedicarboxylic acid, dipentyl ester, branched and linear	84777-06-0	mg/kg	50	ND	500
Dihexylphthalate, branched and linear (DHxP)	68515-50-4	mg/kg	50	ND	500
Di-iso-hexylphalate (DIHxP)	71850-09-4	mg/kg	50	ND	500
Sum of 22 Phthalates_D	-	mg/kg	-	ND	1000

Conclusion

Pass

Remark: ND = Not Detected
RL = Reporting Limit

Total Fluorine Screening

Test Method: With reference to EN 14582:2016, analysis was performed by IC.

Test Item(s)	Unit(s)	RL	1	Req.
Fluorine(F)	mg/kg	50	ND	50

Conclusion

Pass

Remark: ND = Not Detected
RL = Reporting Limit



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Organic Solvents

Test Method: With reference to SGS in house method, analysis was performed by GC-MS.

Test Item(s)	CAS No.	Unit(s)	RL	1	Req.
1,1,1-Trichloroethane	71-55-6	mg/kg	5.0	ND	1000
1,1,2-Trichloroethane	79-00-5	mg/kg	5.0	ND	1000
1,1-Dichloroethylene	75-35-4	mg/kg	5.0	ND	1000
1,2-Dichloroethane	107-06-2	mg/kg	5.0	ND	1000
Benzene	71-43-2	mg/kg	1.0	ND	5.0
Tetrachloromethane(Carbon Tetrachloride)	56-23-5	mg/kg	5.0	ND	1000
Trichloromethane(Chloroform)	67-66-3	mg/kg	5.0	ND	1000
Cyclohexanone	108-94-1	mg/kg	5.0	ND	1000
Dichloromethane(Methylene Chloride)	75-09-2	mg/kg	5.0	ND	1000
Ethylbenzene	100-41-4	mg/kg	5.0	ND	1000
Pentachloroethane	76-01-7	mg/kg	5.0	ND	1000
Phenol	108-95-2	mg/kg	3.0	ND	10
Tetrachloroethene	127-18-4	mg/kg	5.0	ND	1000
Toluene	108-88-3	mg/kg	5.0	18.5	1000
Trichloroethylene	79-01-6	mg/kg	5.0	ND	1000
Xylenes	1330-20-7	mg/kg	5.0	ND	1000
Carbon Disulfide	75-15-0	mg/kg	5.0	ND	1000
Tetrachloroethane	-	mg/kg	5.0	ND	1000
Methylphenol	-	mg/kg	5.0	ND	1000
Sum	-	mg/kg	-	18.5	1000

Conclusion

Pass

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RL = Reporting Limit



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PFCs-Others Materials

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

Test Item(s)	CAS No.	Unit(s)	RL	1	Req.
PFOS and its salts					
Perfluorooctane sulfonates (PFOS)^	1763-23-1	mg/kg	1	ND	1000
PFOS and related substances					
N-ethylperfluoro-1-octanesulfonamide (N-EtFOSA)	4151-50-2	mg/kg	1	ND	1000
N-Methyl-Perfluorooctanesulfonamide(N-Me-FOSA)	31506-32-8	mg/kg	1	ND	1000
2-(N-ethylperfluoro-1-octanesulfonamido) - ethanol (N-EtFOSE)	1691-99-2	mg/kg	1	ND	1000
2-(N-methylperfluoro-1-octanesulfonamido) - ethanol (N-MeFOSE)	24448-09-7	mg/kg	1	ND	1000
Perfluorooctane Sulfonamide (PFOSA)	754-91-6	mg/kg	1	ND	1000
PFOA and its salts					
Perfluorooctanoic acid (PFOA)+	335-67-1	mg/kg	0.025	ND	0.025
PFOA-related Substances					
1H,1H,2H,2H-Perfluoro-1-decanol (8:2 FTS)	39108-34-4	mg/kg	1.0	ND	-
Methyl perfluorooctanoate (Me-PFOA)	376-27-2	mg/kg	1.0	ND	-
Ethyl perfluorooctanoate (Et-PFOA)	3108-24-5	mg/kg	1.0	ND	-
1H,1H,2H,2H-Perfluoro-1-decanol (8:2FTOH)	678-39-7	mg/kg	1.0	ND	-
1H,1H,2H,2H-Perfluorodecylacrylate (8:2FTA)	27905-45-9	mg/kg	1.0	ND	-
1H,1H,2H,2H-Perfluorodecyl methacrylate (8:2 FTMA)	1996-88-9	mg/kg	1.0	ND	-
Perfluoro-1-iodooctane (PFOI)	507-63-1	mg/kg	1.0	ND	-
Sum of PFOA-related substances	-	mg/kg	-	ND	1
C9-C14 PFCAs and their salts					
Perfluorononane Acid (PFNA)**	375-95-1	mg/kg	0.010	ND	-
Perfluorodecane Acid(PFDA)**	335-76-2	mg/kg	0.010	ND	-
Perfluoroundecanoic Acid (PFUnDA)	2058-94-8	mg/kg	0.010	ND	-
Perfluorododecanoic Acid (PFDoDA)**	307-55-1	mg/kg	0.010	ND	-
Perfluorotridecanoic Acid (PFTrDA)	72629-94-8	mg/kg	0.010	ND	-
Perfluorotetradecanoic Acid (PFTDA)	376-06-7	mg/kg	0.010	ND	-
Perfluoro-3,7-dimethyloctanoic Acid (PF-3,7-DMOA)	172155-07-6	mg/kg	0.010	ND	-
Sum of C9-C14 PFCAs and its salts	-	mg/kg	-	ND	0.025
C9-C14 PFOA-related substances					
Perfluorodecane Sulfonate (PFDS)@	335-77-3	mg/kg	0.10	ND	-
1H,1H,2H,2H-Perfluorododecylacrylate (10:2FTA)	17741-60-5	mg/kg	0.10	ND	-
1H,1H,2H,2H-Perfluoro-1-dodecanol (10:2FTOH)	865-86-1	mg/kg	0.10	ND	-



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Test Item(s)	CAS No.	Unit(s)	RL	1	Req.
Sum of C9-C14 PFCA-related substances	-	mg/kg	-	ND	0.26
PFHxS and its salts					
Perfluorohexanesulfonic acid (PFHxS) ^{Note 4}	355-46-4	mg/kg	0.010	ND	-
Sum of PFHxS and its salts	-	mg/kg	-	ND	0.025
PFHxS-related substances					
N-Methylperfluoro-1-hexane sulfonamide (N-Me-FHxSA)	68259-15-4	mg/kg	0.100	ND	-
Perfluorohexane sulfonamide (PFHxSA)	41997-13-1	mg/kg	0.100	ND	-
Total of PFHxS-related substances	-	mg/kg	-	ND	1
Conclusion				Pass	

Remark: ND = Not Detected
RL = Reporting Limit

Notes: ^ 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), PFDaO-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)

Alkylphenol Ethoxylates (APEO) and Alkylphenols(AP)

Test Method: With reference to SGS in house method, analysis was performed by LC-MS.

Test Item(s)	Unit(s)	RL	1	Req.
Sum of APs (NP+OP)	mg/kg	3	ND	10
Sum of APEOs (NPEO+OPEO)	mg/kg	20	ND	-
Sum of APs+APEOs	mg/kg	-	ND	100
Conclusion				Pass

Remark: ND = Not Detected
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Notes: (1) Confirmation was conducted by GC-MS where necessary.



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N,N-Dimethylacetamide (DMAC)& 1-Methyl-2-pyrrolidone (NMP)- All other materials

Test Method: With reference to DIN CEN ISO/TS 16189:2013, analysis was performed by GC-MS.

Test Item(s)	CAS No.	Unit(s)	RL	1	Req.
N,N-Dimethylacetamide (DMAC)	127-19-5	mg/kg	50	ND	1000
1-Methyl-2-pyrrolidone (NMP)	872-50-4	mg/kg	50	ND	1000
Conclusion				Pass	

Remark: ND = Not Detected
RL = Reporting Limit

Unless otherwise stated, the decision rule for conformity reporting is based on Binary Statement for Simple Acceptance Rule (w=0) stated in ILAC-G8:09/2019.

The statement of conformity in this test report is only based on measured values by the laboratory and does not take their uncertainties into consideration.

End of Report

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