



TEST REPORT

LAB NO. : (9325)262-1368
DATE : Oct 11, 2025
PAGE : 1 OF 23

APPLICANT : **NINE DRAGONS PAPER INDUSTRIES (DONG GUAN) CO., LTD**
XINSHA PORT INDUSTRY ZONE, MAYONG TOWN,
DONGGUAN, GUANGDONG, CHINA

DATE OF SUBMISSION : Sep 19, 2025

TEST PERIOD : Sep 19, 2025 to Oct 10, 2025

SAMPLE DESCRIPTION : HIGH PERFORMANCE CORRUGATED MEDIUM (High strength corrugated paper series:45、47、50、60、65、70、80、85、90、100、105、110、115、120、125、130、135、140、150、160、170、180GSM Bobbin paper 390GSM)

Color: /

Style no. / Model no.: corrugated

P.O. No.: /

Country of Origin: /

Country of Destination: /

BUYER : /

MANUFACTURER : /

Bureau Veritas Consumer Products Services (Guangzhou) Co., Ltd
No. 183, Shinan Road, Meilin Plaza, Dongchong, Nansha, Guangzhou, Guangdong Province, China 511453
Tel: (86) 20 2290 2088 Fax: (86) 20 3490 9303
Email: BVCPs_pyinfo@bureauveritas.com
Website: cps.bureauveritas.com

This report is governed by, and incorporates by reference, the Conditions of Testing as posted at the date of issuance of this report at <http://www.bureauveritas.com/home/about-us/our-business/cps/about-us/terms-conditions/> and is intended for your exclusive use. Any copying or replication of this report to or for any other person or entity, or use of our name or trademark, is permitted only with our prior written permission. This report sets forth our findings solely with respect to the test samples identified herein. The results set forth in this report are not indicative or representative of the quality or characteristics of the lot from which a test sample was taken or any similar or identical product unless specifically and expressly noted. Our report includes all of the tests requested by you and the results thereof based upon the information that you provided to us. Measurement uncertainty is only provided upon request for accredited tests. Statements of conformity are based on simple acceptance criteria without taking measurement uncertainty into account, unless otherwise requested in writing. You have 60 days from date of issuance of this report to notify us of any material error or omission caused by our negligence or if you require measurement uncertainty; provided, however, that such notice shall be in writing and shall specifically address the issue you wish to raise. A failure to raise such issue within the prescribed time shall constitute your unqualified acceptance of the completeness of this report, the tests conducted and the correctness of the report contents.

The content of this PDF file is in accordance with the original issued reports for reference only.
This Test Report cannot be reproduced, except in full, without prior written permission of the company.



LAB NO. : (9325)262-1368
 DATE : Oct 11, 2025
 PAGE : 2 OF 23

SUMMARY OF TEST RESULTS

TEST REQUESTED	CONCLUSION	REMARK
Phthalates Content	PASS	
Migration of Certain Elements - European Parliament and Council Directive 2009/48/EC, Annex II, Part III, Point 13 with its Latest Amendment	PASS	
Formaldehyde Content in Accessible Paper Components - EN 71 Part 9: 2005 with Amendment A1: 2007	PASS	
Aromatic Amines Content from Azo Colorants	PASS	
Polycyclic Aromatic Hydrocarbons (PAHs) Content - European Parliament and Council Regulation (EC) No. 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), Annex XVII with its Latest Amendments, Entry 50, Point 5	PASS	
Organotin Compounds Content - Regulation (EC) No. 1907/2006 Annex XVII, Entry 20, Points 4 to 6	PASS	
Qualitative Material Identification for Polyvinyl Chloride (PVC) by Beilstein Test and (or) Fourier Transform Infrared Spectrophotometer (FT-IR)	DATA	
Pesticides Content	DATA	
Flame Retardants Content	DATA	
Alkylphenol Content	DATA	
Perfluorooctanoic Acid (PFOA), its Salts and Related Compounds & Perfluorooctane sulfonic acid and its derivatives (PFOS) Content - European Parliament and Council Regulation (EU) 2019/1021 on Persistent Organic Pollutants (POPs) (recast), Annex I, Part A	PASS	
Halogen (Fluorine, Chlorine, Bromine and Iodine) Content	DATA	
Asbestos content	DATA	

SAMPLE DESCRIPTION ASSIGNED BY LABORATORY

ITEM	ITEM DESCRIPTION
1	Brown paper



LAB NO. : (9325)262-1368
DATE : Oct 11, 2025
PAGE : 3 OF 23

BUREAU VERITAS CONSUMER PRODUCTS SERVICES (GUANGZHOU) CO., LTD

ANDY WANG
OPERATION MANAGER



REMARK

If there are questions or concerns on this report, please contact the following persons:

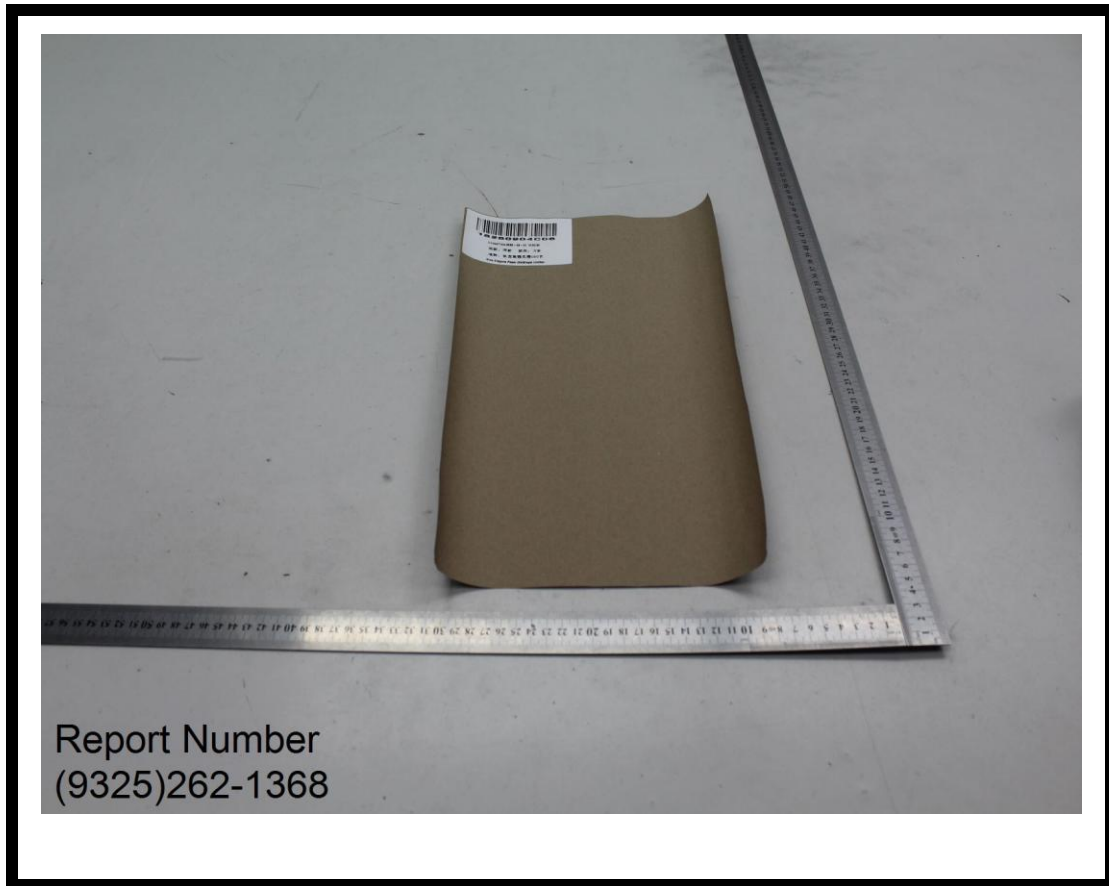
- a) GENERAL TEL: (86)755 83437287
FAX: (86)755 83439100
- b) BUSINESS SZ TEL: (86)755 21534695
FAX: (86)755 83439100
BUSINESS GZ TEL: (86) 20 87148525
FAX: (86) 20 87148528

EMAIL: eechemical.sc@bureauveritas.com
WEBSITE: cps.bureauveritas.cn



LAB NO. : (9325)262-1368
DATE : Oct 11, 2025
PAGE : 4 OF 23

Photo of the Submitted Sample



Report Number
(9325)262-1368



LAB NO. : (9325)262-1368
DATE : Oct 11, 2025
PAGE : 5 OF 23

TEST RESULT

Phthalates Content

Test Method : Sample was extracted with organic solvent and then analyzed by Liquid Chromatograph Mass Spectrometer / Gas Chromatograph Mass Spectrometer.

Client's Limit :	0.1% (Each)
-------------------------	--------------------

Test Item(s)	Result			Conclusion
	Detected Analyte(s)	Conc.	Unit	
1	ND	ND	%	PASS

Note / Key :

ND = Not detected

">" = Greater than

Conc. = Concentration

mg/kg = milligram(s) per kilogram = ppm = part(s) per million

% = percent

1 % = 10 000 mg/kg

Detection Limit (%) - Each : 0.005

Remark :

- The list of phthalates is summarized in table of Appendix.

APPENDIX

List of Phthalates:					
No.	Name of Analytes	CAS-No.	No.	Name of Analytes	CAS-No.
1	Diisobuty phthalate (DIBP)	131-11-3	5	Di-2-ethylhexyl phthalate (DEHP)	117-81-7
2	Dibutyl phthalate (DBP)	84-74-2	6	Di-n-octyl phthalate (DNOP)	117-84-0
3	Butyl benzyl phthalate (BBP)	85-68-7	7	Di-iso-nonyl phthalate (DINP)	28553-12-0 & 68515-48-0
4	Di-iso-decyl phthalate (DIDP)	26761-40-0	-	-	-



LAB NO. : (9325)262-1368
DATE : Oct 11, 2025
PAGE : 6 OF 23

TEST RESULT

Migration of Certain Elements - European Parliament and Council Directive 2009/48/EC, Annex II, Part III, Point 13 with its Latest Amendment

Test Method : European Standard EN 71 Part 3: 2019+A2: 2024.

See Soluble Element (Parameter) and its corresponding Maximum Allowable Limit (Req.) in Result Table	Type I	Dry, brittle, powder-like or pliable toy material	
	Type II	Liquid or sticky toy material	
	Type III	Scraped-off toy material	
-	Unit	Req.	Result
Test Item(s)	-	-	1
Type	-	III	III
Parameter	-	-	-
Mass of Trace Amount	g	-	-
Aluminium (Al)	mg/kg	28130	ND
Antimony (Sb)	mg/kg	560	ND
Arsenic (As)	mg/kg	47	ND
Barium (Ba)	mg/kg	18750	ND
Boron (B)	mg/kg	15000	ND
Cadmium (Cd)	mg/kg	17	ND
Chromium III (Cr III)	mg/kg	460	ND
Chromium VI (Cr VI)	mg/kg	0.053	ND
Cobalt (Co)	mg/kg	130	ND
Copper (Cu)	mg/kg	7700	ND
Lead (Pb)	mg/kg	23	3.36
Manganese (Mn)	mg/kg	15000	ND
Mercury (Hg)	mg/kg	94	ND
Nickel (Ni)	mg/kg	930	ND
Selenium (Se)	mg/kg	460	ND
Strontium (Sr)	mg/kg	56000	ND
Tin (Sn)	mg/kg	180000	ND
Organic tin	mg/kg	12	ND
Zinc (Zn)	mg/kg	46000	ND
Conclusion	-	-	PASS

Note / Key :

ND = Not detected

">" = Greater than

Req. = Requirement

NR = Not requested

g = gram(s)

INCON. = Inconclusive

mg/kg = milligram(s) per kilogram = ppm = part(s) per million

[] = Detection Limit by test method with reference to EN 71-3: 2019 + A2: 2024, Annex F

{ } = Detection Limit by test method with reference to EN 71-3: 2019 + A2: 2024, Annex G

Detection Limit (mg/kg) :

For Type I - Al : 225 ; Sb : 4.5 ; As : 0.38 ; Ba : 150 ; B : 120 ; Cd : 0.13 ; Cr III : 3.75 ; Cr VI : 0.005 [0.002] ; Co : 1.05 ; Cu : 62.25 ; Pb : 0.2 ;

Mn : 120 ; Hg : 0.75 ; Ni : 7.5 ; Se : 3.75 ; Sr : 450 ; Sn : 1 500 ; Organic tin : 0.09 {0.04} ; Zn : 375

For Type II - Al : 56 ; Sb : 1.13 ; As : 0.09 ; Ba : 37.5 ; B : 30 ; Cd : 0.03 ; Cr III : 0.94 ; Cr VI : 0.005 [0.002] ; Co : 0.26 ; Cu : 15.6 ; Pb : 0.05 ;

Mn : 30 ; Hg : 0.19 ; Ni : 1.88 ; Se : 0.94 ; Sr : 112.5 ; Sn : 375 ; Organic tin : 0.02 {0.04} ; Zn : 93.8



LAB NO. : (9325)262-1368
DATE : Oct 11, 2025
PAGE : 7 OF 23

For Type III - Al : 2813 ; Sb : 56 ; As : 4.7 ; Ba : 1 875 ; B : 1 500 ; Cd : 1.7 ; Cr III : 46 ; Cr VI : 0.005 [0.002] ; Co : 13 ;
Cu : 770 ; Pb : 2.3 ;
Mn : 1 500 ; Hg : 9.4 ; Ni : 93 ; Se : 46 ; Sr : 5 600 ; Sn : 18 000 ; Organic tin : 1.2 {2} ; Zn : 4 600

Remark :

- Test Item(s) was (were) tested according to European Standard EN 71-3: 2019 + A2: 2024, Section 8.
 - Results of Cr III and Cr VI were reported as sum of soluble chromium content unless further verified.
 - Result(s) of organic tin was (were) calculated by assuming the soluble tin content was wholly contributed from tributyltin (TBT) cation unless further specified.
 - The pH measured shall be reported after migration if it was outside the range of 1.1 to 1.3.
 - European Standard EN 71 Part 3: 2019 + A1: 2021 is currently harmonized under European Parliament and Council Directive 2009/48/EC and will be superseded when European Standard EN 71 Part 3: 2019 + A2: 2024 is harmonized
-



LAB NO. : (9325)262-1368
DATE : Oct 11, 2025
PAGE : 8 OF 23

TEST RESULT

Formaldehyde Content in Accessible Paper Components - EN 71 Part 9: 2005 with Amendment A1: 2007

Test Method : BS EN 645: 1994 and BS EN 1541: 2001.

Maximum Allowable Limit :	75 mg/kg		
Test Item(s)	Result	Unit	Conclusion
1	ND	mg/kg	PASS

Note / Key :

ND = Not detected “>” = Greater than
mg/kg = milligram(s) per kilogram
Detection Limit (mg/kg) : 5

Remark :

- Result(s) was (were) reported from the average of two trials.
-



LAB NO. : (9325)262-1368
DATE : Oct 11, 2025
PAGE : 9 OF 23

TEST RESULT

Aromatic Amines Content from Azo Colorants

Test Method I : European Standard EN ISO 14362-1: 2017.

Test Method II : International Standard ISO 17234-1: 2020.

Maximum Allowable Limit :	30 mg/kg (Each of the listed aromatic amines)
---------------------------	---

Test Item(s)	Result				Conclusion
	Test Method	Detected Analyte(s)	Conc.	Unit	
1	I	ND	ND	mg/kg	PASS

Note / Key :

ND = Not detected

">" = Greater than

Conc. = Concentration

mg/kg = milligram(s) per kilogram = ppm = part(s) per million

10 000 mg/kg = 1 %

% = percent

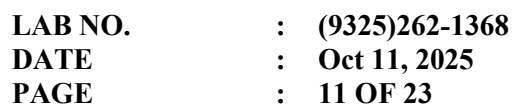
Detection Limit (mg/kg) - Each of the listed aromatic amines : 10

Remark :

- The list of aromatic amines from azo colorants is summarized in table of Appendix.
- Quantitative and qualitative determinations of aromatic amines are carried out by gas chromatography with mass spectrometer (GC-MS) while qualitative confirmation is carried out by high performance liquid chromatography with diode array detector (HPLC-DAD).
- The colorant(s) of Test Item(s), that are able to form 4-aminoazobenzene, is (are) able to generate aniline and 1,4-phenylenediamine under the condition of Test Method I or II.

APPENDIX

List of Aromatic Amines in Azo Colorants:					
No.	Name of Analytes	CAS-No.	No.	Name of Analytes	CAS-No.
1	4-Aminodiphenyl (Biphenyl-4-ylamine or Xenylamine)	92-67-1	12	3,3'-Dimethylbenzidine (4,4'-Bi-o-tolidine)	119-93-7
2	Benzidine	92-87-5	13	4,4'-Methylenedi-o-toluidine (3,3'-Dimethyl- 4,4'-diaminodiphenylmethane)	838-88-0
3	4-Chloro-o-toluidine	95-69-2	14	p-Cresidine (6-Methoxy-m-toluidine)	120-71-8
4	2-Naphthylamine	91-59-8	15	4,4'-Methylene-bis-(2- chloraniline) (2,2'-Dichloro-4,4'-methylene- dianiline)	101-14-4
5	o-Aminoazotoluene (4-Amino-2',3- dimethylazobenzene or 4-o- tolylazo-o-toluidine)	97-56-3	16	4,4'-Oxydianiline	101-80-4
6	5-nitro-o-toluidine (2-Amino-4-nitrotoluene)	99-55-8	17	4,4'-Thiodianiline	139-65-1
7	4-Chloroaniline (p-Chloroaniline)	106-47-8	18	o-Toluidine (2-Aminotoluene)	95-53-4
8	4-Methoxy-m-phenylenediamine (2,4-Diaminoanisole)	615-05-4	19	4-Methyl-m-phenylenediamine (2,4-Toluenediamine)	95-80-7
9	4,4'-Diaminodiphenylmethane (4,4'-Methylenedianiline)	101-77-9	20	2,4,5-Trimethylaniline	137-17-7
10	3,3'-Dichlorobenzidine (3,3'-Dichlorobiphenyl-4,4'- ylenediamine)	91-94-1	21	o-Anisidine (2-Methoxyaniline)	90-04-0
11	3,3'-Dimethoxybenzidine (o-Dianisidine)	119-90-4	22	4-Aminoazobenzene (p-Aminoazobenzene)	60-09-3
CAS-No. = Chemical Abstracts Service registry number					



Polycyclic Aromatic Hydrocarbons (PAHs) Content - European Parliament and Council Regulation (EC) No. 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), Annex XVII with its Latest Amendments, Entry 50, Point 5

Maximum Allowable Limit :	1.0 mg/kg (Each of all listed PAHs)^[a]				
Test Item(s)	Result				Conclusion
	Test Method	Detected Analyte(s)	Conc.	Unit	
1	I	ND	ND	mg/kg	PASS

ND = Not detected “>” = Greater than Conc. = Concentration
mg/kg = milligram(s) per kilogram = ppm = part(s) per million % = percent
1 % = 10 000 mg/kg Test Method I = Individual Testing Test Method II = Composite Testing
Detection Limit (mg/kg) -
For individual testing - Each of the listed PAHs : 0.2
For composite testing - Each of the listed PAHs : 0.1

- The list of polycyclic aromatic hydrocarbons is summarized in table of Appendix.
- Rubber or plastic component(s) of articles that come into direct as well as prolonged or short-term repetitive contact with the human skin or the oral cavity under normal or reasonably foreseeable conditions of use is (are) applicable to be tested. Articles include amongst others :
 - Sport equipment such as bicycles, golf clubs, racquets;
 - Household utensils, trolleys, walking frames;
 - Tools for domestic use;
 - Clothing, footwear, gloves and sportswear;
 - Watch-straps, wrist-bands, masks, head-bands
- ^[a] denotes as this maximum allowable limit applies to product(s) placed on the market for the first time on or after December 27, 2015 only.

List of Polycyclic Aromatic Hydrocarbons					
European Parliament and Council Regulation EC No. 1907/2006, Annex XVII, Entry 50, Point 5 :					
No.	Name of Analyte(s)	CAS-No.	No.	Name of Analyte(s)	CAS-No.
1	Benzo[a]pyrene (BaP)	50-32-8	5	Benzo[b]fluoranthene (BbFA)	205-99-2
2	Benzo[c]pyrene (BeP)	192-97-2	6	Benzo[k]fluoranthene (BkFA)	205-82-3
3	Benzo[a]anthracene (BaA)	56-55-3	7	Benzo[k]fluoranthene (BkFA)	207-08-9
4	Chrysene (CHR)	218-01-9	8	Dibenzo[a,h]anthracene (DBAhA)	53-70-3

CAS-No. = Chemical Abstracts Service registry number



LAB NO. : (9325)262-1368
DATE : Oct 11, 2025
PAGE : 12 OF 23

TEST RESULT

Organotin Compounds Content - Regulation (EC) No. 1907/2006 Annex XVII, Entry 20, Points 4 to 6

Test Method : Solvent extraction and analysis by Gas Chromatograph Mass Spectrometer.

Maximum Allowable Limit : (See Comment for the List of Sample Types)	Type I	Sum of tri-substituted organostannic compounds (Sum of tri-substituted orgt.) : 0.1 % by weight of tin
	Type II	DBT : 0.1 % by weight of tin
	Type III	DOT : 0.1 % by weight of tin

Test Item(s)	Type	Result			Conclusion
		Detected Analyte(s)	Conc.	Unit	
1	I, II & III	ND	ND	%	PASS

Note / Key :

ND = Not detected

">" = Greater than

Conc. = Concentration

% = percent by weight of tin

Detection Limit (%) : Sum of tri-substituted orgt. 0.01; DBT 0.01; DOT 0.01

Remark :

- The list of organotin compounds is summarized in table of Appendix.

Comment :

List of Sample Types :	
Type	Description
I	Articles, or part thereof, placed on the market after July 1, 2010
II	Mixtures or articles, or part thereof, placed on the market after January 1, 2012, except materials and articles regulated under Regulation (EC) No. 1935/2004; and the following mixtures or articles, or part thereof, placed on the market after January 1, 2015, - one-component and two-component room temperature vulcanisation sealants (RTV-1 and RTV-2 sealants) and adhesives, - paints and coatings containing DBT compounds as catalysts when applied on articles, - soft polyvinyl chloride (PVC) profiles whether by themselves or coextruded with hard PVC, - fabrics coated with PVC containing DBT compounds as stabilisers when intended for outdoor application, - outdoor rainwater pipes, gutters and fittings, as well as covering material for roofing and facades.
III	Articles, or part thereof, placed on the market after January 1, 2012, including - textile articles intended to come into contact with the skin, - gloves, - footwear or part of footwear intended to come into contact with the skin, - wall and floor coverings, - childcare articles, - female hygiene products, - nappies, - two-component room temperature vulcanisation moulding kits (RTV-2 moulding kits)



LAB NO. : (9325)262-1368
DATE : Oct 11, 2025
PAGE : 13 OF 23

APPENDIX

List of Organotin Compounds [Regulation (EC) No. 1907/2006 Annex XVII, Entry 20, Points 4 to 6] :			
No.	Name of Analytes	No.	Name of Analytes
1	Tri-substituted organostannic compounds (Tri-substituted orgt.), including - Tripropyltin (TPT) - Tributyltin (TBT) - Trioctyltin (TOT) - Triphenyltin (TPhT) - Tricyclohexyltin (TcyT)	3	Dioctyltin (DOT)
2	Dibutyltin (DBT)	-	-



LAB NO. : (9325)262-1368
DATE : Oct 11, 2025
PAGE : 14 OF 23

TEST RESULT

Qualitative Material Identification for Polyvinyl Chloride (PVC) by Beilstein Test and (or) Fourier Transform Infrared Spectrophotometer (FT-IR)

Test Method : Beilstein test analysis/ Fourier Transform Infrared Spectroscopy.

Test Item(s)	Result	Conclusion
1	Negative	DATA

Note / Key :

% = percent

Detection Limit (%) : 10



LAB NO. : (9325)262-1368
DATE : Oct 11, 2025
PAGE : 15 OF 23

TEST RESULT

Pesticides Content

Test Method : Sample was extracted with organic solvent and then analyzed by Gas Chromatography Mass Spectrometer.

Client's limit	/			
Test Item(s)	Result			Conclusion
	Detected Analyte(s)	Conc.	Unit	
1	ND	ND	mg/kg	DATA

Note / Key :

ND = Not detected

">" = Greater than

Conc. = Concentration

mg/kg = milligram(s) per kilogram = ppm = part(s) per million

"<" = Less than

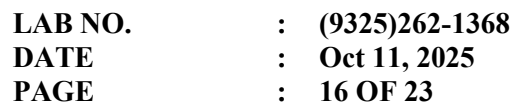
Detection Limit (mg/kg) : Each : 0.5

Remark :

- The list of Pesticides Content is summarized in table of Appendix.

APPENDIX

List of Pesticides Content :					
No.	Name of Analyte(s)	CAS-No.	No.	Name of Analyte(s)	CAS-No.
1	Mirex	2385-85-5	-	-	-
CAS-No. = Chemical Abstracts Service registry number					



Flame Retardants Content

Client's limit :	/
-------------------------	---

- The list of flame retardants is summarized in table of Appendix.

List of Flame Retardants :

CAS-No. = Chemical Abstracts Service registry number



LAB NO. : (9325)262-1368
DATE : Oct 11, 2025
PAGE : 17 OF 23

TEST RESULT

Alkylphenol Content

Test Method : Solvent extraction with LC-MS analysis

Test Item(s)	1		
Type	-	-	
Parameter	Unit	Client's Limit	Result
NPs	mg/kg	-	ND
Conclusion	DATA		

Note / Key :

ND = Not detected

10 000 mg/kg = 1 %

Detection Limit (mg/kg) : 10

mg/kg = milligram(s) per kilogram = ppm = part(s) per million

% = percent

Remark :

- The names of alkylphenols and alkylphenol ethoxylates are summarized in table of Appendix.

APPENDIX

Alkylphenols :			
No.	Name(s)	No.	Name(s)
1	Nonylphenol (NPs)	-	-



LAB NO. : (9325)262-1368
DATE : Oct 11, 2025
PAGE : 18 OF 23

TEST RESULT

Perfluorooctanoic Acid (PFOA), its Salts and Related Compounds & Perfluorooctane sulfonic acid and its derivatives (PFOS) Content - European Parliament and Council Regulation (EU) 2019/1021 on Persistent Organic Pollutants (POPs) (recast), Annex I, Part A

Test Method : EN 17681-1:2022 Solvent extraction and analysis by Gas Chromatograph Mass Spectrometer (GC-MS/MS) and Liquid Chromatograph Mass Spectrometer (LC-MS/MS).

Limit:	Textile & other coated materials with water and(or) oil repellent finishes shall have: - PFOA & its salt(s) [≤ 0.025 mg/kg]; & - Each & sum of PFOA related substances [≤ 1 mg/kg]. - PFOS & its derivatives [≤ 1 mcg/sq. m]
---------------	--

Test Item(s)	Result			Conclusion
	Detected Analyte(s)	Conc.	Unit	
1	ND	ND	mg/kg/ mcg/sq. m	PASS

Note:

ND = Not detected
mg/kg = milligram per kilogram
mcg/sq. m = microgram(s) per square meter
Detection Limit –
Each of all listed perfluorooctanoic acid (PFOA): 0.01 mg/kg
Each of all listed Perfluorooctane sulfonic acid (PFOS): 1 mcg/sq. m

Remark:

- The list of PFOA, PFOS is summarized in table of Appendix.

APPENDIX

List of Perfluorooctanoic Acid (PFOA), its Salts and Related Compounds & Perfluorooctane sulfonic acid and its derivatives (PFOS) Content & Perfluorohexane sulfonic acid (PFHxS), its salts and PFHxS-related Compounds					
PFOS and related substances:					
No.	Name of Analytes	CAS-Nr.	No.	Name of Analytes	CAS-Nr.
1	Perfluorooctane sulphononic acid (PFOS)	1763-23-1	8	N-Ethyl-heptadecafluorooctane sulphonamide (N-Et-FOSA)	4151-50-2
2	Perfluorooctane sulfonate potassium salt (PFOS-K)	2795-39-3	9	N-Methyl-heptadecafluorooctane sulphonamide (N-Me-FOSA)	31506-32-8
3	Perfluorooctane sulfonate lithium salt (PFOS-Li)	29457-72-5	10	N-Ethyl-heptadecafluorooctane sulphonamidoethanol (N-Et-FOSE)	1691-99-2
4	Perfluorooctane sulfonate ammonium salt (PFOS-NH ₄)	29081-56-9	11	N-Methyl-heptadecafluorooctane sulphonamidoethanol (N-Me-FOSE)	24448-09-7
5	Perfluorooctane sulfonate diethanolamine salt (PFOS-NH(OH) ₂)	70225-14-8	12	Heptadecafluorooctanesulfonyl fluoride (POSF)	307-35-7
6	Perfluorooctanesulfonic acid tetraethylammonium salt (PFOS-N(C ₂ H ₅) ₄)	56773-42-3	13	Perfluorooctane sulphonamide (PFOSA)	754-91-6
7	Didecyldimethyl ammonium perfluorooctane sulfonate (PFOS-N(C ₁₀ H ₂₁) ₂ (CH ₃) ₂)	251099-16-8	-	-	-
PFOA and its salts:					
No.	Name of Analytes	CAS-Nr.	No.	Name of Analytes	CAS-Nr.
1	Perfluorooctanoic Acid (PFOA)	335-67-1	4	Silver Perfluorooctanoate (PFOA-Ag)	335-93-3
2	Sodium Perfluorooctanoate (PFOA-Na)	335-95-5	5	Perfluorooctanoyl fluoride (PFOA-F)	335-66-0
3	Potassium Perfluorooctanoate (PFOA-K)	2395-00-8	6	Ammonium pentadecafluorooctanoate (APFO)	3825-26-1
PFOA-related substances:					
No.	Name of Analytes	CAS-Nr.	No.	Name of Analytes	CAS-Nr.
1	1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS)	39108-34-4	5	1H,1H,2H,2H-Perfluorodecyl acrylate (8:2 FTA)	27905-45-9
2	Methyl perfluorooctanoate (Me-PFOA)	376-27-2	6	1H,1H,2H,2H-Perfluorodecyl methacrylate (8:2 FTMA)	1996-88-9
3	Ethyl perfluorooctanoate (Et-PFOA)	3108-24-5	7	2H,2H-Perfluorodecanoic acid (H ₂ PFDA)	27854-31-5
4	2-Perfluorooctylethanol (8:2 FTOH)	678-39-7	-	-	-



LAB NO. : (9325)262-1368
DATE : Oct 11, 2025
PAGE : 20 OF 23

TEST RESULT

Halogen (Fluorine, Chlorine, Bromine and Iodine) Content

Test Method : Sample was firstly combusted and absorbed with solvent. The solution was then analysed by Ion Chromatography. (reference to EN14582:2016)

Parameter	Unit	MDL	Result	Client's Limit
			1*	
Fluorine (F)	mg/kg	20	23	-
Chlorine (Cl)	mg/kg	50	406	-
Bromine (Br)	mg/kg	50	ND	-
Iodine (I)	mg/kg	50	ND	-
Conclusion	-	-	DATA	-

Note / Key :

ND = Not detected

"<" = less than

mg/kg = milligram per kilogram



LAB NO. : (9325)262-1368
DATE : Oct 11, 2025
PAGE : 21 OF 23

TEST RESULT

Asbestos content

Test Method : With reference to ISO 22262-1:2012 and NIOSH 9000:2015, analysis was performed by Polarizing microscope (PLM) and X-ray powder diffractometer (XRD).

Instrument:

Instrument	Manufacturer	Model	Testing
X-ray powder diffractometer (XRD)	Rigaku	Ultima-IV	Qualitative, Quantitative
Polarizing microscope (PLM)	leica	DM 2700P	Qualitative

Test Item	CAS No.	Sample	MDL
		1 **	
Chrysotile	12001-29-5	Negative	0.1%(m/m)
Amosite	12172-73-5	Negative	0.1%(m/m)
Crocidolite	12001-28-4	Negative	0.1%(m/m)
Anthophyllite	77536-67-5	Negative	0.1%(m/m)
Tremolite	77536-68-6	Negative	0.1%(m/m)
Actinolite	77536-66-4	Negative	0.1%(m/m)

- Remark:
- 1) Negative < 0.1%(m/m) (Not detected asbestos), Positive ≥ 0.1%(m/m) (Detected asbestos)
 - 2) MDL = Method Detection Limit
 - 3) 1 mg/kg = 1 ppm = 0.0001%(m/m)
 - 4) Asbestos content was subcontracted items.

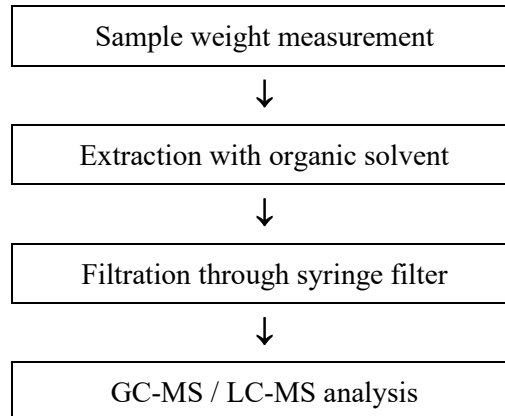
Remark: “*” The above results were transferred from (9325)262-1359 dated on Oct 11, 2025

Remark: “**” The above results were transferred from (9325)262-1343 dated on Oct 11, 2025

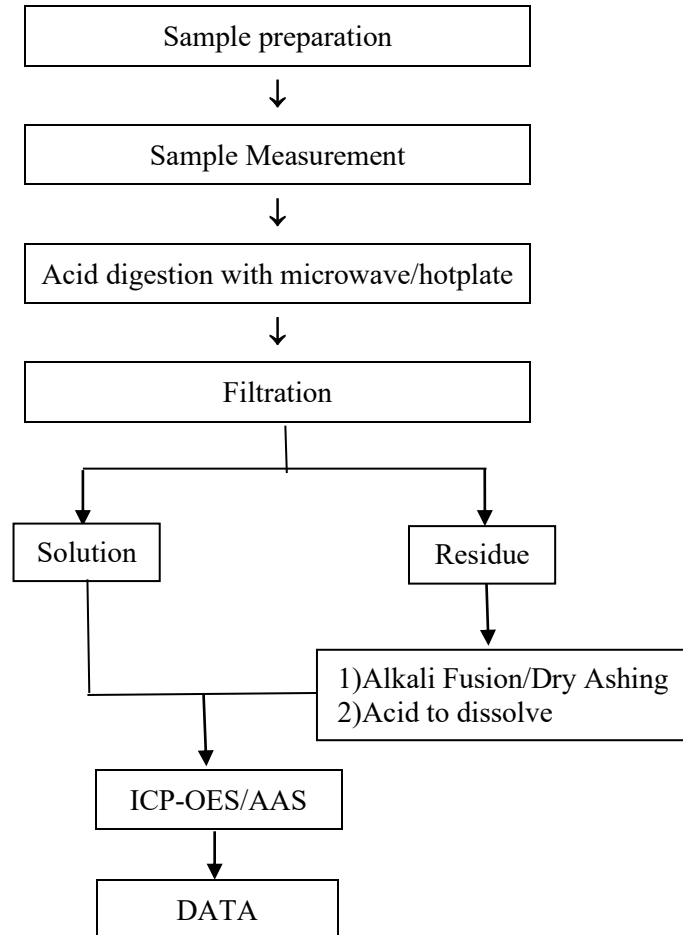


LAB NO. : (9325)262-1368
DATE : Oct 11, 2025
PAGE : 22 OF 23

APPENDIX – TEST PROCESS



APPENDIX – TEST PROCESS



END