

OCEAN WASTE PLASTIC

MATERIAL : PP OWP

ITEM CODE : OWP-1203/MV



... BECAUSE PERFECTION CREATES CONFIDENCE

# Specification & Compliance document

OCEAN WASTE PLASTIC



SPECIFICATION &  
COMPLIANCE DOCUMENT

# Content

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PAGE 03	<b>Raw material specification</b>
PAGE 05	<b>Compliance to REACH</b>
PAGE 19	<b>Tested for compliance to EU-regulation (EU) 10/2011</b> For plastics intended to come into contact with food
PAGE 24	<b>EU Cosmetic Regulation 1223/2009</b>





**PP** SPECIFICATION &  
COMPLIANCE DOCUMENT

# Raw material specification

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# JinYuan Plastics

## OWP TECHNICAL DATA SHEET

East Nanzhan Road No. 16, Zhejiang, PR China

### OWP-1203/MV

07/01/2019 – V.03

**Copolymer Polypropylene** Post-Consumer Resin

Injection Molding

PROPERTY	METHOD	
Melt Flow	ASTM-D1238	8.0 g/10 minutes to 10 g/10 minutes
Specific Gravity	ASTM-D792	0.85 g/ml to 0.97 g/ml
Elongation at Yield	ASTM-D638	9 % to 11%
Tensile Yield Strength	ASTM-D638	3,500 psi to 4,400 psi
Flexural Modulus	ASTM-D790	160,000 psi to 190,000 psi
Notched Izod Impact	ASTM-D256	1.3 ft-lb/inch to 1,5 ft-lb/inch

#### REGULATORY

CONEG Compliant	<100 ppm total	✓
REACH / SVHC		✓
Tested for compliance to (EU) 10/2011 (food contact)		✓
EU Cosmetic Regulation 1223/2009		✓

#### CHARACTERISTICS

Good impact resistance. Transparent colors are not possible.

Surface of finished goods may vary from how PP usually appears. Dark spots may appear in finished goods.

#### QUALITY

ISO 9001: 2015 registered, ISO/ IEC 17025: 2005 accredited laboratories.

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# Compliance to REACH

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8<sup>th</sup> of January 2018**Statement regarding REACH, SVHC and heavy metals**

We hereby confirm that the following raw material (PP):

- **OWP-1203/mv**

complies with:

- REACH Regulation (EC) No 1907/2006, (Registration, Evaluation, Authorization and Restriction of Chemicals), annex XIV
- Candidate list of Substances of Very High Concern (SVHC) published by The European Chemicals Agency (ECHA).

At the same time we hereby explicit confirm that the raw material does not contain any of the following substances in a concentration above 0,01% (to be in line with REACH the level must be <0,1%) :

- Bisphenol A (BPA)
- Furfural
- Latex
- Nitrosamine
- Phthalates
- PVC
- 2-Chloracetamid
- Heavy metals

**PACK TECH A/S**

Klaus Hein Andersen

Quality Manager



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## TEST REPORT

06 December 2018

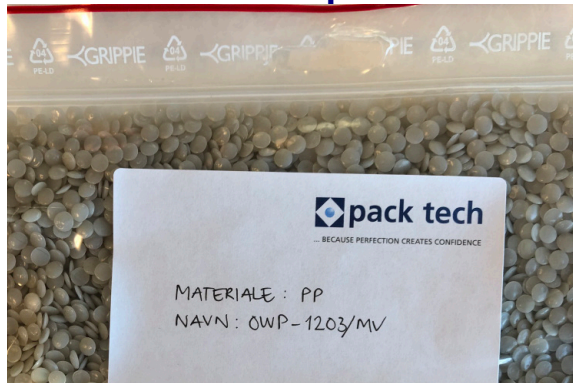
### 1 Sample Information

Sample name	OWP-1203/mv
Sample reception	16/11/2018
Sample no.	392-2018-00470302
Analysis period	19/11/2018 - 05/12/2018

### Test performed

The 191 substances in the Candidate List of Substances of Very High Concern (SVHC) for Authorisation, published by European Chemicals Agency (ECHA), latest updated on 27 June, 2018, regarding the Regulation (EC) No. 1907/2006: Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH).

### 2 Picture of Sample



### 3 Results

Please see enclosure with detailed results.

### 4 Conclusion

**None** of the 191 SVHC substances were detected in the sample.

Eurofins Product Testing A/S



Inge Bondgaard Nielsen  
Chemical Engineer



## TEST REPORT

**APPLICANT** : EUROFINS PRODUCT TESTING DENMARK A/S  
**ADDRESS** : SMEDESKOVVEJ 38 DK-8464 GALTEN  
**SAMPLE DESCRIPTION** : OWP PP material  
**STYLE / ITEM NO.** : 392-2018-00470302  
**PO NO.** : EUDKGA-00004555  
**TEST CODE** : SN433  
**AGE REQUESTED ON APPLICATION FORM** : NOT PRESENT  
**SAMPLE RECEIVED DATE** : NOV. 27, 2018  
**TEST PERIOD** : NOV. 28, 2018 TO DEC. 03, 2018  
**RESULT SUMMARY** :

**TEST(S) REQUESTED BY APPLICANT:**

The 191 substances in the Candidate List of Substances of Very High Concern (SVHC) published by European Chemicals Agency (ECHA), latest updated on 27 June 2018, regarding the Regulation (EC) No. 1907/2006: Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH).

**TEST RESULT**

Please refer to next page(s).

\*\*\*\*\*FOR FURTHER DETAILS, PLEASE REFER TO THE FOLLOWING PAGE(S)\*\*\*\*\*

SIGNED FOR AND ON BEHALF OF  
EUROFINS TESTING TECHNOLOGY (SHENZHEN) CO. LTD.



Harry Chen  
Lab & Technical Support Manager



Coco Luo  
Lab & Reporting Manager

This test report is valid for the tested samples only. Without permission of the test center this test report is not permitted to be duplicated in extracts.  
This test report does not entitle to carry any safety mark on this or similar products.





**Remark:**

- (1) The chemical analysis of specified SVHC is performed by means of currently available analytical techniques against the following SVHC related documents published by ECHA:  
(A) [http://echa.europa.eu/chem\\_data/authorisation\\_process/candidate\\_list\\_table\\_en.asp](http://echa.europa.eu/chem_data/authorisation_process/candidate_list_table_en.asp)  
(B) [http://echa.europa.eu/consultations/authorisation/svhc/svhc\\_cons\\_en.asp](http://echa.europa.eu/consultations/authorisation/svhc/svhc_cons_en.asp)  
These lists are under evaluation by ECHA and may subject to change in the future.
- (2) In accordance with Regulation (EC) No 1907/2006, any EU producer or importer of articles shall notify ECHA, in accordance with paragraph 4 of Article 7, if a substance meets the criteria in Article 57 and is identified in accordance with Article 59(1) of the Regulation, if (a) the substance in the Candidate List is present in those articles in quantities totaling over one tonne per producer or importer per year; and (b) the substance in the Candidate List is present in those articles above a concentration of 0.1% weight by weight (w/w).
- (3) From 28 October 2008, EU & EEA suppliers of articles which contain substances on the Candidate List in a concentration above 0.1% (w/w) must provide sufficient information, available to them, to their customers and on request to a consumer within 45 days of the receipt of this request. This information must ensure safe use of the article and, as a minimum, include the name of the substance.
- (4) If a SVHC is found over the reporting limit, the client is suggested to identify the component which contains the SVHC and the exact concentration of the SVHC by requesting further quantitative analysis from the laboratory.

\*\*\*TO BE CONTINUED\*\*\*

9 // 25

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**Material list**

Testing material No.	Component	Material	Colour
1	392-2018-00470302	Plastic	Grey white

\*\*\*TO BE CONTINUED\*\*\*

10 // 25

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**Test Result:**

Test method : In-house method, GC-MS/LC-MS-quantification of relevant SVHC (substances of very high concern) in material samples.

Detection limit : 0.010 %

No.	Parameter	CAS No.	Test result (%)
			1
1	Bis(tributyltin) oxide	56-35-9	N.D.
2	Dibutyl phthalate (DBP)	84-74-2	N.D.
3	5-tert-butyl-2,4,6-trinitro-m-xylene(musk xylene)	81-15-2	N.D.
4	Bis (2-ethylhexyl)phthalate (DEHP)	117-81-7	N.D.
5	Benzyl butyl phthalate (BBP)	85-68-7	N.D.
6	Hexabromocyclododecane (HBCDD) and all major diastereoisomers identified	25637-99-4 3194-55-6	N.D.
7	4,4'-Diaminodiphenylmethane (MDA)	101-77-9	N.D.
8	Anthracene	120-12-7	N.D.
9	Diisobutyl phthalate (DiBP)	84-69-5	N.D.
10	2,4 - Dinitrotoluene	121-14-2	N.D.
11	Tris (2-chloroethyl) phosphate (TCEP)	115-96-8	N.D.
12	Anthracene oil	90640-80-5	N.D.
13	Anthracene oil, anthracene paste,distn. Lights	91995-17-4	N.D.
14	Anthracene oil, anthracene paste,anthracene fraction	91995-15-2	N.D.
15	Anthracene oil, anthracene-low	90640-82-7	N.D.
16	Anthracene oil, anthracene paste	90640-81-6	N.D.
17	Coal tar pitch, high temperature	65996-93-2	N.D.
18	Acrylamide	79-06-1	N.D.
19	Trichloroethylene	79-01-6	N.D.
20	2-Methoxyethanol	109-86-4	N.D.
21	2-Ethoxyethanol	110-80-5	N.D.
22	2-ethoxyethyl acetate	111-15-9	N.D.
23	1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters	68515-42-4	N.D.
24	Hydrazine	302-01-2 7803-57-8	N.D.
25	1-methyl-2-pyrrolidone	872-50-4	N.D.
26	1,2,3-trichloropropane	96-18-4	N.D.
27	1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich	71888-89-6	N.D.
28	Formaldehyde, oligomeric reaction products with aniline	25214-70-4	N.D.
29	Bis(2-methoxyethyl) phthalate	117-82-8	N.D.
30	2-Methoxyaniline; o-Anisidine	90-04-0	N.D.
31	4-(1,1,3,3-tetramethylbutyl)phenol, (4-tert-Octylphenol)	140-66-9	N.D.
32	1,2-Dichloroethane	107-06-2	N.D.
33	Bis(2-methoxyethyl) ether	111-96-6	N.D.
34	N,N-dimethylacetamide	127-19-5	N.D.
35	2,2'-dichloro-4,4'-methylenedianiline	101-14-4	N.D.
36	Phenolphthalein	77-09-8	N.D.
37	1,2-bis(2-methoxyethoxy) ethane (TEGDME; triglyme)	112-49-2	N.D.

\*\*\*TO BE CONTINUED\*\*\*

11 // 25

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38	1,2-dimethoxyethane; ethylene glycol dimethyl ether (EGDME)	110-71-4	N.D.
39	4,4'-bis(dimethylamino)-4''-(methylamino) trityl alcohol	561-41-1	N.D.
40	Formamide	75-12-7	N.D.
41	TGIC (1,3,5-tris(oxiranylmethyl)-1,3,5-triazine-2,4,6(1H,3H,5H)-trione)	2451-62-9	N.D.
42	$\beta$ -TGIC (1,3,5-tris[(2S and 2R)-2,3-epoxypropyl]-1,3,5-triazine-2,4,6-(1H,3H,5H) -trione)	59653-74-6	N.D.
43	4,4'-bis(dimethylamino)benzophenone (Michler's ketone)	90-94-8	N.D.
44	N,N,N',N'-tetramethyl-4,4'-methylenedianiline (Arnold's Base)	101-61-1	N.D.
45	[4-[4,4'-bis(dimethylamino)benzhydrylidene]cyclohexa-2,5-dien-1-ylidene]dimethylammonium chloride (C.I. Basic Violet 3)	548-62-9	N.D.
46	[4-[[4-anilino-1-naphthyl][4-(dimethylamino)phenyl]methylene]cyclohexa-2,5-dien-1-ylidene] dimethylammonium chloride (C.I. Basic Blue 26)	2580-56-5	N.D.
47	$\alpha,\alpha$ -Bis[4-(dimethylamino)phenyl]-4(phenylamino)naphthalene-1-methanol (C.I. Solvent Blue 4)	6786-83-0	N.D.
48	Bis(pentabromophenyl) ether (decabromodiphenyl ether; DecaBDE)	1163-19-5	N.D.
49	Pentacosafuorotridecanoic acid	72629-94-8	N.D.
50	Tricosafuorododecanoic acid	307-55-1	N.D.
51	Henicosafuoroundecanoic acid	2058-94-8	N.D.
52	Heptacosafuorotetradecanoic acid	376-06-7	N.D.
53	Diazene-1,2-dicarboxamide (C,C'-azodi(formamide)) (ADA)	123-77-3	N.D.
54	Cyclohexane-1,2-dicarboxylic anhydride [1]cis-cyclohexane-1,2-dicarboxylic anhydride [2] trans-cyclohexane-1,2-dicarboxylic anhydride [3] [The individual cis- [2] and trans- [3] isomer substances and all possible combinations of the cis- and trans-isomers [1] are covered by this entry].	85-42-7, 13149-00-3, 14166-21-3	N.D.
55	Hexahydromethylphthalic anhydride [1], Hexahydro-4-methylphthalic anhydride [2], Hexahydro-1-methylphthalic anhydride [3], Hexahydro-3-methylphthalic anhydride [4] [The individual isomers [2], [3] and [4] (including their cis- and trans- stereo isomeric forms) and all possible combinations of the isomers [1] are covered by this entry]	25550-51-0, 19438-60-9, 48122-14-1, 57110-29-9	N.D.
56	4-Nonylphenol, branched and linear [substances with a linear and/or branched alkyl chain with a carbon number of 9 covalently bound in position 4 to phenol, covering also UVCB- and well-defined	-	N.D.

\*\*\*TO BE CONTINUED\*\*\*

12 // 25

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	substances which include any of the individual isomers or a combination thereof]		
57	4-(1,1,3,3-tetramethylbutyl)phenol, ethoxylated [covering well-defined substances and UVCB substances, polymers and homologues]	-	N.D.
58	Methoxyacetic acid	625-45-6	N.D.
59	N,N-dimethylformamide	68-12-2	N.D.
60	Dibutyltin dichloride (DBTC)	683-18-1	N.D.
61	1-bromopropane (n-propyl bromide)	106-94-5	N.D.
62	Methyloxirane (Propylene oxide) EN13130	75-56-9	N.D.
63	1,2-Benzenedicarboxylic acid, dipentylester, branched and linear	84777-06-0	N.D.
64	Diisopentylphthalate	605-50-5	N.D.
65	N-pentyl-isopentylphthalate	776297-69-9	N.D.
66	1,2-diethoxyethane	629-14-1	N.D.
67	Furan	110-00-9	N.D.
68	Diethyl sulphate	64-67-5	N.D.
69	Dimethyl sulphate	77-78-1	N.D.
70	3-ethyl-2-methyl-2-(3-methylbutyl)-1,3-oxazolidine	143860-04-2	N.D.
71	Dinoseb (6-sec-butyl-2,4-dinitrophenol)	88-85-7	N.D.
72	4,4'-methylenedi-o-toluidine	838-88-0	N.D.
73	4,4'-oxydianiline and its salts	101-80-4	N.D.
74	4-aminoazobenzene	60-09-3	N.D.
75	4-methyl-m-phenylenediamine (toluene-2,4-diamine)	95-80-7	N.D.
76	6-methoxy-m-toluidine (p-cresidine)	120-71-8	N.D.
77	Biphenyl-4-ylamine	92-67-1	N.D.
78	o-aminoazotoluene [(4-o-tolylazo-o-toluidine)]	97-56-3	N.D.
79	o-toluidine	95-53-4	N.D.
80	N-methylacetamide	79-16-3	N.D.
81	Ammonium pentadecafluorooctanoate (APFO) detect as PFOA	3825-26-1	N.D.
82	Pentadecafluorooctanoic acid (PFOA)	335-67-1	N.D.
83	Dipentyl phthalate (DPP)	131-18-0	N.D.
84	4-Nonylphenol, branched and linear, ethoxylated [substances with a linear and/or branched alkyl chain with a carbon number of 9 covalently bound in position 4 to phenol, ethoxylated covering UVCB- and well-defined substances, polymers and homologues, which include any of the individual isomers and/or combinations thereof]	-	N.D.
85	Disodium 3,3'-[[1,1'-biphenyl]-4,4'-diylbis(azo)]bis(4-aminonaphthalene-1-sulphonate) (C.I. Direct Red 28)	573-58-0	N.D.
86	Disodium 4-amino-3-[[4'-[(2,4-diaminophenyl)azo][1,1'-biphenyl]-4-yl]azo]-5-hydroxy-6-(phenylazo)naphthalene-2,7-disulphonate (C.I. Direct Black 38)	1937-37-7	N.D.

\*\*\*TO BE CONTINUED\*\*\*

13 // 25

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87	Dihexyl phthalate	84-75-3	N.D.
88	Imidazolidine-2-thione (2-imidazoline-2-thiol)	96-45-7	N.D.
89	Trixylyl phosphate	25155-23-1	N.D.
90	1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear	68515-50-4	N.D.
91	2-benzotriazol-2-yl-4,6-di-tert-butylphenol (UV-320)	3846-71-7	N.D.
92	2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate (DOTE)	15571-58-1	N.D.
93	reaction mass of 2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate and 2-ethylhexyl 10-ethyl-4-[[2-[(2-ethylhexyl)oxy]-2-oxoethyl]thio]-4-octyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate (reaction mass of DOTE and MOTE)	-	N.D.
94	2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)	25973-55-1	N.D.
95	1,2-benzenedicarboxylic acid, di-C6-10-alkylesters; 1,2-benzenedicarboxylic acid, mixed decyl and hexyl and octyl diesters with ≥ 0.3% of dihexyl phthalate (EC No. 201-559-5)	68515-51-5 68648-93-1	N.D.
96	5-sec-butyl-2-(2,4-dimethylcyclohex-3-en-1-yl)-5-methyl-1,3-dioxane [1], 5-sec-butyl-2-(4,6-dimethylcyclohex-3-en-1-yl)-5-methyl-1,3-dioxane [2]	-	N.D.
97	Nitrobenzene	98-95-3	N.D.
98	2,4-di-tert-butyl-6-(5-chlorobenzotriazol-2-yl)phenol (UV-327)	3864-99-1	N.D.
99	2-(2H-benzotriazol-2-yl)-4-(tert-butyl)-6-(sec-butyl)phenol (UV-350)	36437-37-3	N.D.
100	1,3-propanesultone	1120-71-4	N.D.
101	Perfluorononan-1-oic-acid and its sodium and ammonium salts propanesultone	375-95-1 21049-39-8 4149-60-4	N.D.
102	Benzo[def]chrysene (Benzo[a]pyrene)	50-32-8	N.D.
103	4,4'-isopropylidenediphenol (bisphenol A; BPA)	80-05-7	N.D.
104	4-Heptylphenol, branched and linear	-	N.D.
105	p-(1,1-dimethylpropyl)phenol	80-46-6	N.D.
106	Nonadecafluorodecanoic acid (PFDA) and its sodium and ammonium salts [Nonadecafluorodecanoic acid (EC no.: 206-400-3, CAS no.: 335-76-2); Ammonium nonadecafluorodecanoate (EC no.: 221-470-5, CAS no.: 3108-42-7); Decanoic acid, nonadecafluoro-, sodium salt (EC no.: -, CAS no.: 3830-45-3)]	-	N.D.
107	Perfluorohexane-1-sulphonic acid and its salts(PFHxS)	-	N.D.
108	Chrysene	218-01-9	N.D.

\*\*\*TO BE CONTINUED\*\*\*

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109	Benz[a]anthracene	56-55-3	N.D.
110	1,6,7,8,9,14,15,16,17,17,18,18-Dodecachloropentacyclo[12.2.1.1 <sup>6,9</sup> .0 <sup>2,13</sup> .0 <sup>5,10</sup> ]octadeca-7,15-diene ("Dechlorane Plus" <sup>™</sup> ) [covering any of its individual anti- and syn-isomers or any combination thereof]	-	N.D.
111	Reaction products of 1,3,4-thiadiazolidine-2,5-dithione, formaldehyde and 4-heptylphenol, branched and linear (RP-HP) [with ≥0.1% w/w 4-heptylphenol, branched and linear	-	N.D.
112	Benzene-1,2,4-tricarboxylic acid 1,2 anhydride trimellitic anhydride; TMA	552-30-7	N.D.
113	Benzo[ghi]perylene	191-24-2	N.D.
114	Decamethylcyclopentasiloxane D5	541-02-6	N.D.
115	Dicyclohexyl phthalate DCHP	84-61-7	N.D.
116	Dodecamethylcyclohexasiloxane D6	540-97-6	N.D.
117	Ethylenediamine EDA	107-15-3	N.D.
118	Octamethylcyclotetrasiloxane D4	556-67-2	N.D.
119	Terphenyl, hydrogenated	61788-32-7	N.D.

Test method : Extraction with organic solvent, analysis with GC-MS-NCI.

Detection limit : 0.010 %

No.	Parameter	CAS No.	Test result (%)
			1
120	Alkanes, C10-13, chloro (Short Chain Chlorinated Paraffins)	85535-84-8	N.D.

Test method : In-house method, ICP-OES, UV/VIS, IC after decomposition for determination of relevant SVHC (substances of very high concern) in material samples.

Detection limit : 0.010 %

No.	Parameter	CAS No.	Test result (%)
			1
121	Cobalt dichloride <sup>1)</sup>	7646-79-9	N.D.
122	Sodium dichromate <sup>1)</sup>	10588-01-9 7789-12-0	N.D.
123	Diarsenic Pentaoxide <sup>1)</sup>	1303-28-2	N.D.
124	Diarsenic Trioxide <sup>1)</sup>	1327-53-3	N.D.
125	Lead Hydrogen Arsenate <sup>1)</sup>	7784-40-9	N.D.
126	Lead sulfochromate yellow <sup>1)</sup>	1344-37-2	N.D.
127	Lead chromate molybdate sulphate red <sup>1)</sup>	12656-85-8	N.D.
128	Lead chromate <sup>1)</sup>	7758-97-6	N.D.
129	Triethyl arsenate <sup>1)</sup>	15606-95-8	N.D.
130	Boric acid <sup>1)</sup>	10043-35-3 11113-50-1	N.D.

\*\*\*TO BE CONTINUED\*\*\*

15 // 25

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131	Disodium tetraborate, anhydrous <sup>1)</sup>	1303-96-4 1330-43-4 12179-04-3	N.D.
132	Tetraboron disodium heptaoxide, hydrate <sup>1)</sup>	12267-73-1	N.D.
133	Sodium chromate <sup>1)</sup>	7775-11-3	N.D.
134	Potassium chromate <sup>1)</sup>	7789-00-6	N.D.
135	Ammonium dichromate <sup>1)</sup>	7789-09-5	N.D.
136	Potassium dichromate <sup>1)</sup>	7778-50-9	N.D.
137	Cobalt(II) sulphate <sup>1)</sup>	10124-43-3	N.D.
138	Cobalt(II) dinitrate <sup>1)</sup>	10141-05-6	N.D.
139	Cobalt(II) carbonate <sup>1)</sup>	513-79-1	N.D.
140	Cobalt(II) diacetate <sup>1)</sup>	71-48-7	N.D.
141	Chromium trioxide <sup>1)</sup>	1333-82-0	N.D.
142	Acids generated from chromium trioxide and their oligomers <sup>1)</sup>	-	N.D.
143	Strontium chromate <sup>1)</sup>	7789-06-2	N.D.
144	Dichromium tris(chromate) <sup>1)</sup>	24613-89-6	N.D.
145	Potassium hydroxyoctaoxidizincatedi-chromate <sup>1)</sup>	11103-86-9	N.D.
146	Pentazinc chromate octahydroxide <sup>1)</sup>	49663-84-5	N.D.
147	Aluminosilicate Refractory Ceramic Fibres (RCF) <sup>1)</sup>	-	N.D.
148	Zirconia Aluminosilicate Refractory Ceramic Fibres (Zr-RCF) <sup>1)</sup>	-	N.D.
149	Arsenic acid <sup>1)</sup>	7778-39-4	N.D.
150	Calcium arsenate <sup>1)</sup>	7778-44-1	N.D.
151	Trilead diarsenate <sup>1)</sup>	3687-31-8	N.D.
152	Lead azide Lead diazide <sup>1)</sup>	13424-46-9	N.D.
153	Lead styphnate <sup>1)</sup>	15245-44-0	N.D.
154	Lead dipicrate <sup>1)</sup>	6477-64-1	N.D.
155	Diboron trioxide <sup>1)</sup>	1303-86-2	N.D.
156	Lead(II) bis(methanesulfonate) <sup>1)</sup>	17570-76-2	N.D.
157	Lead monoxide (Lead oxide) <sup>1)</sup>	1317-36-8	N.D.
158	Orange lead (Lead tetroxide) <sup>1)</sup>	1314-41-6	N.D.
159	Lead bis(tetrafluoroborate) <sup>1)</sup>	13814-96-5	N.D.
160	Trilead bis(carbonate)dihydroxide <sup>1)</sup>	1319-46-6	N.D.
161	Lead titanium trioxide <sup>1)</sup>	12060-00-3	N.D.
162	Lead titanium zirconium oxide <sup>1)</sup>	12626-81-2	N.D.
163	Silicic acid, lead salt <sup>1)</sup>	11120-22-2	N.D.
164	Silicic acid (H <sub>2</sub> SiO <sub>5</sub> ), barium salt (1:1), lead-doped [with lead (Pb) content above the applicable generic concentration limit for 'toxicity for reproduction' Repr. 1A (CLP) or category 1 (DSD); the substance is a member of the group entry of lead compounds, with index number 082-001-00-6 in Regulation (EC) No 1272/2008] <sup>1)</sup>	68784-75-8	N.D.
165	Acetic acid, lead salt, basic <sup>1)</sup>	51404-69-4	N.D.
166	Lead oxide sulfate <sup>1)</sup>	12036-76-9	N.D.
167	[Phthalato(2-)]dioxotrilead <sup>1)</sup>	69011-06-9	N.D.
168	Dioxobis(stearato)trilead <sup>1)</sup>	12578-12-0	N.D.
169	Fatty acids, C16-18, lead salts <sup>1)</sup>	91031-62-8	N.D.

\*\*\*TO BE CONTINUED\*\*\*

16 // 25

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170	Lead cyanidate <sup>1)</sup>	20837-86-9	N.D.
171	Lead dinitrate <sup>1)</sup>	10099-74-8	N.D.
172	Pentalead tetraoxide sulphate <sup>1)</sup>	12065-90-6	N.D.
173	Pyrochlore, antimony lead yellow <sup>1)</sup>	8012-00-8	N.D.
174	Sulfurous acid, lead salt, dibasic <sup>1)</sup>	62229-08-7	N.D.
175	Tetraethyllead <sup>1)</sup>	78-00-2	N.D.
176	Tetralead trioxide sulphate <sup>1)</sup>	12202-17-4	N.D.
177	Trilead dioxide phosphonate <sup>1)</sup>	12141-20-7	N.D.
178	Cadmium <sup>1)</sup>	7440-43-9	N.D.
179	Cadmium oxide <sup>1)</sup>	1306-19-0	N.D.
180	Cadmium sulphide <sup>1)</sup>	1306-23-6	N.D.
181	Lead di(acetate) <sup>1)</sup>	301-04-2	N.D.
182	Sodium perborate; perboric acid, sodium salt <sup>1)</sup>	-	N.D.
183	Sodium peroxometaborate <sup>1)</sup>	7632-04-4	N.D.
184	Cadmium chloride <sup>1)</sup>	10108-64-2	N.D.
185	Cadmium fluoride <sup>1)</sup>	7790-79-6	N.D.
186	Cadmium sulphate <sup>1)</sup>	10124-36-4, 31119-53-6	N.D.
187	Cadmium nitrate <sup>1)</sup>	10325-94-7	N.D.
188	Cadmium hydroxide <sup>1)</sup>	21041-95-2	N.D.
189	Cadmium carbonate <sup>1)</sup>	513-78-0	N.D.
190	Disodium octaborate <sup>1)</sup>	12008-41-2	N.D.
191	Lead <sup>1)</sup>	7439-92-1	N.D.

Note: - 1 mg/kg = 1 ppm = 0.0001%

- N.D. = Not Detected

- <sup>1)</sup> The substances are tested in term of its respective elements (e.g. As, Pb, Cr(VI)) and calculated based on assumption of worst-case.

**Other Information / Remark:**

N/A

\*\*\*TO BE CONTINUED\*\*\*

17 // 25

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**Photo Attachment  
Material No. 1**

\*\*\*END OF THE REPORT\*\*\*



**PP** SPECIFICATION &  
COMPLIANCE DOCUMENT

# EU-Regulation (EU) 10/2011

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6<sup>th</sup> of January 2019**Statement regarding EU-regulation (EU) No 10/2011 for plastics intended to come into contact with food**

We hereby confirm that the following raw material:

- **OWP-1203/mv (PP)**

is tested against:

EU-regulation (EU) No 10/2011 for plastics intended to come into contact with food

Tests were carried out with 4 food simulants:

- 3% acetic acid
- 10% ethanol
- 95% ethanol
- Isooctane

The results for overall migration are all **below** the threshold value of 10 mg/dm<sup>2</sup> for the four tested food simulants.

Screening analysis (NIAS) of the raw material were performed with **no concerns detected**.

**PACK TECH A/S**

Klaus Hein Andersen

Quality Manager

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## Migration Report

20 December 2018

### 1 Sample Information

Sample name	OWP plastic pellets, PP, OWP-1203 / MV
Sample reception	16/11/2018
Sample no.	392-2018-00470302
Analysis period	19/11/2018 - 21/12/2018

### 2 Brief Evaluation of the Results

Type of analysis	Conclusion	Regulation or protocol
Overall migration	Pass	(EU) No 10/2011

Full details based on the testing and direct comparison with limit values are available in the following pages



Louise Skov Iversen  
Analytical Chemist



Inge Bondgaard Nielsen  
Chemical Engineer



### 3 Applied Test Methods

#### 3.1 General Test References

Method	Parameter	Analysis principle	LOD	Um(%)
EN 1186-3:2002	Preparation for migration	Exposure to 10% ethanol by total immersion	-	-
EN 1186-1:2002	Overall migration into 10% ethanol	Gravimetry	1 mg/dm <sup>2</sup>	20%
EN 1186-14:2002	Preparation for migration	Exposure to 95% ethanol by total immersion	-	-
EN 1186-1:2002	Overall migration into 95% ethanol	Gravimetry	1 mg/dm <sup>2</sup>	20%
EN 1186-14:2002	Preparation for migration	Exposure to 95% ethanol by total immersion	-	-
Internal Method 1 <sup>⌘</sup> 1	NIAS Screening	GC-MS	-	-
EN 1186-14:2002	Preparation for migration	Exposure to isooctane by total immersion	-	-
EN 1186-1:2002	Overall migration into isooctane	Gravimetry	1 mg/dm <sup>2</sup>	20%
EN 1186-3:2002	Preparation for migration	Exposure to 3% acetic acid by total immersion	-	-
EN 1186-1:2002	Overall migration into 3% acetic acid	Gravimetry	1 mg/dm <sup>2</sup>	20%

#### 3.2 Test Conditions

Simulant	Technique	Amount exposed	Volume (Simulant)	Migration Conditions
3% acetic acid	Immersion	2.01 dm <sup>2</sup>	100 mL	10 Days at 40°C
10% ethanol	Immersion	2.01 dm <sup>2</sup>	100 mL	10 Days at 40°C
95% ethanol	Immersion	2.01 dm <sup>2</sup>	100 mL	10 Days at 40°C
Isooctane	Immersion	2.01 dm <sup>2</sup>	100 mL	2 Days at 20°C
95% ethanol - Screening	Immersion	90 items	100 mL	10 Days at 40°C

<sup>1</sup> Eurofins Consumer Product Testing GmbH : DIN EN ISO/IEC 17025:2005 D-PL-14435-01-00

\*: Not accredited

<: Less than

>: Greater than

LOD: Limit of detection

⌘: Internal test method

n.d: Not detected

n.m: Not measurable

LOQ: Limit of quantification

Um(%): The expanded uncertainty Um(%) equals 2 x RSD%. For further information please visit [www.eurofins.dk/uncertainty](http://www.eurofins.dk/uncertainty)

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## 4 Results

### 4.1 Overall migration

Simulant	Single determinations			Average	OML value
	[mg/dm <sup>2</sup> ]	[mg/dm <sup>2</sup> ]	[mg/dm <sup>2</sup> ]		
3% acetic acid	< 1	< 1	< 1	< 1	10
10% ethanol	< 1	< 1	< 1	< 1	10
95% ethanol	2.6	2.7	3.2	2.8	10
Isooctane	3.3	3.6	3.7	3.6	10

## 5 Summary and Evaluation of the Results

The results for overall migration are all **below** the threshold value of 10 mg/dm<sup>2</sup> for tested food simulant. Screening analysis (NIAS) of the raw material were performed with **no concerns detected**.

\*: Not accredited

<: Less than

>: Greater than

LOD: Limit of detection

Um(%): The expanded uncertainty Um(%) equals 2 x RSD%. For further information please visit [www.eurofins.dk/uncertainty](http://www.eurofins.dk/uncertainty)

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⊠: Internal test method

n.d: Not detected

n.m: Not measurable

LOQ: Limit of quantification





**PP** SPECIFICATION &  
COMPLIANCE DOCUMENT

# EU Cosmetic Regulation 1223/2009

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7<sup>th</sup> of January 2019

**Statement regarding EU-regulation (EU) No 1223/2009**

We hereby confirm that the following raw material:

- **OWP-1203/mv (PP)**

Comply to EU-regulation (EU) No 1223/209

The migration analysis with the four following food simulants were all **below** the threshold value of 10 mg/dm<sup>2</sup>:

- 3% acetic acid
- 10% ethanol
- 95% ethanol
- Isooctane

The performed screening analysis (NIAS) were performed with **no concerns detected**.

**PACK TECH A/S**



Klaus Hein Andersen

Quality Manager

