

# Test Report

No.: ETF20C00108

Date: 18-Jan-2021

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NAN YA PLASTICS CORPORATION  
NO. 102, NANLIN RD., TAISHAN DIST., NEW TAIPEI CITY, TAIWAN

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

Sample Description : NAN YA PVC FOOD GRADE FILM  
Sample Package/Quantity : BULK PACKAGING / 1  
Sample Packaging : Ambient temp.  
Style/Item No. : BH  
Lot. No. : 20201129  
Sample Material : PVC  
Sample Submitted By : -  
Company Add/Tel/Contact Person : -  
Manufacturing Date : 20201129  
Expiry Date : 20251129  
Country Of Origin : TAIWAN

=====  
Sample Receiving Date : 28-Dec-2020  
Testing Period : 28-Dec-2020 to 18-Jan-2021

**Test Requested** : As specified by client, with reference to Sanitation Standard for Food Utensils, Containers and Packages (MOHW Food No. 1021350146, amended on 2013/08/20) to conduct test. Please refer to the result table(s) for testing item(s).

**Test Result(s)** : Please refer to next page(s).

*Singh Hsiao*  
Singh Hsiao / Asst. Manager  
Signed for and behalf of  
SGS TAIWAN LTD.  
Chemical Laboratory - Taipei



PIN CODE: F48E998C

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## Test Part Description

No.1 : TRANSPARENT PLASTIC FILM

## Test Result(s)

Test Item(s)	Method	Unit	LOQ/ LOD	Result	Limit
				No.1	
★Lead (Pb)	With reference to Methods of Test for Food Utensils, Containers and Packages - Test of Polyvinyl Chloride (PVC) Plastic Products (MOHW Food No. 1071901626 announced, August 24, 2018), analysis was performed by ICP-OES.	ppm	5	n.d.	100
★Cadmium (Cd)		ppm	0.5	n.d.	100
★Dibutyltin (as dibutyltin dichloride)	With reference to Methods of Test for Food Utensils, Containers and Packages - Test of Polyvinyl Chloride (PVC) Plastic Products (MOHW Food No. 1071901626 announced, August 24, 2018).	ppm	0.5	n.d.	50
★Cresyl phosphate		ppm	50	n.d.	1000
★Vinyl chloride monomer		ppm	0.2	n.d.	1
★Potassium permanganate consumption-(water, 95°C, 30 min)		ppm	3	n.d.	10
★Heavy metal (as Pb)-(4% acetic acid, 95°C, 30 min)		ppm	-	<1	1
★Evaporation residue-(water, 95°C, 30 min)		ppm	3	n.d.	30
★Evaporation residue-(4% acetic acid, 95°C, 30 min)		ppm	3	4	30
★Evaporation residue-(n-Heptane, 25°C, 1 h)		ppm	3	74	150
★Evaporation residue-(20% alcohol, 60°C, 30 min)		ppm	3	4	30

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Test Item(s)	Method	Unit	LOQ/ LOD	Result	Limit
				No.1	
★DEHP (Di-(2-ethylhexyl) phthalate) (CAS No.: 117-81-7)	With reference to CNS 15138-1 (2012), analysis was performed by GC/MS.	%	0.003	n.d.	0.1 (Total)
★DBP (Di-n-butyl phthalate) (CAS No.: 84-74-2)		%	0.003	n.d.	
★BBP (Butyl Benzyl phthalate) (CAS No.: 85-68-7)		%	0.003	n.d.	
★DIDP (Diisodecyl phthalate) (CAS No.: 26761-40-0; 68515-49-1)		%	0.01	n.d.	
★DINP (Diisononyl phthalate) (CAS No.: 28553-12-0; 68515-48-0)		%	0.01	n.d.	
★DMP (Dimethyl phthalate) (CAS No.: 131-11-3)		%	0.003	n.d.	
★DNOP (Di-n-octyl phthalate) (CAS No.: 117-84-0)		%	0.003	n.d.	
★DEP (Diethyl phthalate) (CAS No.: 84-66-2)		%	0.003	n.d.	
★DEHP (Di-(2-ethylhexyl) phthalate) (CAS No.: 117-81-7) (n-Heptane, 25°C, 1 h)	With reference to Methods of Test for Food Utensils, Containers and Packages - Test of Plastics (MOHW Food No. 1071901983 announced, October 04, 2018), analysis was performed by GC/MS.	ppm	0.05	n.d.	1.5
★DBP (Di-n-butyl phthalate) (CAS No.: 84-74-2) (n-Heptane, 25°C, 1 h)		ppm	0.05	n.d.	0.3
★BBP (Butyl Benzyl phthalate) (CAS No.: 85-68-7) (n-Heptane, 25°C, 1 h)		ppm	0.05	n.d.	30
★DIDP (Diisodecyl phthalate) (CAS No.: 26761-40-0; 68515-49-1) (n-Heptane, 25°C, 1 h)		ppm	0.5	n.d.	9
★DINP (Diisononyl phthalate) (CAS No.: 28553-12-0; 68515-48-0) (n-Heptane, 25°C, 1 h)		ppm	0.5	n.d.	9
★DEHA (Di-2-ethylhexyl Adipate) (CAS No.: 103-23-1) (n-Heptane, 25°C, 1 h)		ppm	0.05	n.d.	18

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## Note:

1. **The test report merely reflects the test results of the consigned matters of the client and is not a certification of the legitimacy of the related products.**
2. All contents in the test report are conducted according to the customer-specified items. If there is any falsehood, we are willing to take corresponding responsibility.
3. mg/kg = ppm ; 0.1wt% = 1000 ppm
4. LOQ = Limit of Quantification, for quantitative analyses; LOD = Limit of Detection, for qualitative analyses.
5. n.d. = Not Detected = Less than LOQ/LOD
6. "-" = No Regulated
7. The test method marked with ★ is accredited by MOHW.
8. The limit value(s) is/are according to "Sanitation Standard for Food Utensils, Containers and Packages (amended on 2013/08/20)" , Taiwan Food and Drug Administration, Ministry of Health and Welfare.

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\* The tested sample / part is marked by an arrow if it's shown on the photo. \*

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\*\* End of Report \*\*

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The information requested from client is shown as below :

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Test Items	Method	LOQ/LOD
★Lead (Pb)	With reference to Methods of Test for Food Utensils, Containers and Packages - Test of Polyvinyl Chloride (PVC) Plastic Products (MOHW Food No. 1071901626 announced, August 24, 2018), analysis was performed by ICP-OES.	Please refer to the result table above.
★Cadmium (Cd)		
★Dibutyltin (as dibutyltin dichloride)	With reference to Methods of Test for Food Utensils, Containers and Packages - Test of Polyvinyl Chloride (PVC) Plastic Products (MOHW Food No. 1071901626 announced, August 24, 2018).	
★Cresyl phosphate		
★Vinyl chloride monomer		
★Potassium permanganate consumption-(water, 95°C, 30 min)		
★Heavy metal (as Pb)-(4% acetic acid, 95°C, 30 min)		
★Evaporation residue-(water, 95°C, 30 min)		
★Evaporation residue-(4% acetic acid, 95°C, 30 min)		
★Evaporation residue-(n-Heptane, 25°C, 1 h)		
★Evaporation residue-(20% alcohol, 60°C, 30 min)		
★DEHP (Di-(2-ethylhexyl) phthalate) (CAS No.: 117-81-7)	With reference to CNS 15138-1 (2012), analysis was performed by GC/MS.	
★DBP (Di-n-butyl phthalate) (CAS No.: 84-74-2)		
★BBP (Butyl Benzyl phthalate) (CAS No.: 85-68-7)		
★DIDP (Diisodecyl phthalate) (CAS No.: 26761-40-0; 68515-49-1)		

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The information requested from client is shown as below :

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Test Items	Method	LOQ/LOD
★DINP (Diisononyl phthalate) (CAS No.: 28553-12-0; 68515-48-0)	With reference to CNS 15138-1 (2012), analysis was performed by GC/MS.	Please refer to the result table above.
★DMP (Dimethyl phthalate) (CAS No.: 131-11-3)		
★DNOP (Di-n-octyl phthalate) (CAS No.: 117-84-0)		
★DEP (Diethyl phthalate) (CAS No.: 84-66-2)		
★DEHP (Di-(2-ethylhexyl) phthalate) (CAS No.: 117-81-7) (n-Heptane, 25°C, 1 h)	With reference to Methods of Test for Food Utensils, Containers and Packages - Test of Plastics (MOHW Food No. 1071901983 announced, October 04, 2018), analysis was performed by GC/MS.	
★DBP (Di-n-butyl phthalate) (CAS No.: 84-74-2) (n-Heptane, 25°C, 1 h)		
★BBP (Butyl Benzyl phthalate) (CAS No.: 85-68-7) (n-Heptane, 25°C, 1 h)		
★DIDP (Diisodecyl phthalate) (CAS No.: 26761-40-0; 68515-49-1) (n-Heptane, 25°C, 1 h)		
★DINP (Diisononyl phthalate) (CAS No.: 28553-12-0; 68515-48-0) (n-Heptane, 25°C, 1 h)		
★DEHA (Di-2-ethylhexyl Adipate) (CAS No.: 103-23-1) (n-Heptane, 25°C, 1 h)		

The test method marked with ★ is accredited by MOHW.

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