

## Test Report

No. : CT/2015/41003 Date : 2015/05/08 Page : 1 of 5

NAN YA PLASTICS CORPORATION, POLYESTER FIBER DIVISION  
5TH FLOOR, NO. 201, TUN-HWA NORTH ROAD, TAIPEI, TAIWAN, R. O. C.



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

Sample Submitted By : NAN YA PLASTICS CORPORATION  
Sample Description : POLYETHYLENE TEREPHTHALATE BOTTLE (PET BOTTLE)  
Style/Item No. : PET BOTTLE MADE FROM TYPE NO. 3842  
Sample Material : POLYETHYLENE TEREPHTHALATE  
Country of Origin : TAIWAN  
Sample Receiving Date : 2015/04/29  
Testing Period : 2015/04/29 TO 2015/05/08

### Test Requested :

- (1) As specified by client, with reference to Article 6 of Sanitation Standard for Food Utensils, Containers and Packages (MOHW Food No. 1021350146 was amended on 2013/08/20) to test following items:
- (1.1) Material test : Lead 、 Cadmium.  
Migration test : Potassium permanganate consumption 、 Heavy metal (as Pb) 、 Evaporation residue 、 Antimony 、 Germanium 、 DEHP (Di-(2-ethylhexyl) phthalate) 、 DBP (Di-n-butyl phthalate) 、 DINP (Diisononyl phthalate) 、 DIDP (Diisodecyl phthalate) 、 BBP (Butyl Benzyl phthalate) 、 DEHA (Di-2-ethylhexyl Adipate).
- (1.2) Material test : DEHP (Di-(2-ethylhexyl) phthalate) 、 DBP (Di-n-butyl phthalate) 、 DINP (Diisononyl phthalate) 、 DIDP (Diisodecyl phthalate) 、 BBP (Butyl Benzyl phthalate) 、 DNOP (Di-n-octyl phthalate) 、 DMP (Dimethyl phthalate) 、 DEP (Diethyl phthalate) .

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

Conclusion : (1.1) Based upon the performed tests on submitted samples, the test results comply with the limits of requirements in Article 6 of Sanitation Standard for Food Utensils, Containers and Packages (MOHW Food No. 1021350146 was amended on 2013/08/20).

  
  
Troy Chang, Manager - Tech  
Signed for and on behalf of  
SGS TAIWAN LTD.  
Chemical Laboratory - Taipei

# Test Report

No. : CT/2015/41003 Date : 2015/05/08 Page : 2 of 5

NAN YA PLASTICS CORPORATION, POLYESTER FIBER DIVISION  
5TH FLOOR, NO. 201, TUN-HWA NORTH ROAD, TAIPEI, TAIWAN, R. O. C.



## Test Result(s)

PART NAME No.1 : TRANSPARENT PLASTIC BOTTLES

(1.1)

PASS

Test Item (s)	Unit	Method	LOQ	Result	Limit
				No.1	
Lead (Pb)	ppm	With reference to Sanitation Standard for Food Utensils, Containers and Packages-Polyethylene terephthalate (PET) (MOHW Food No. 1021950329 announced, September 6, 2013). Analysis was performance by ICP-AES.	5	n.d.	100
Cadmium (Cd)	ppm		0.5	n.d.	100
Antimony (Sb)-(4% acetic acid, 60°C, 30 min)	ppm	With reference to Sanitation Standard for Food Utensils, Containers and Packages-Polyethylene terephthalate (PET) (MOHW Food No. 1021950329 announced, September 6, 2013). Analysis was performance by ICP-MS.	0.002	n.d.	0.05
Germanium (Ge)-(4% acetic acid, 60°C, 30 min)	ppm		0.005	n.d.	0.1
Potassium permanganate consumption-(water, 60°C, 30 min)	ppm	With reference to Sanitation Standard for Food Utensils, Containers and Packages-Polyethylene terephthalate (PET) (MOHW Food No. 1021950329 announced, September 6, 2013).	3	n.d.	10
Heavy metal (as Pb)-(4% acetic acid, 60°C, 30 min)	ppm		1	Negative	1
Evaporation residue-(water, 60°C, 30 min)	ppm		10	n.d.	30
Evaporation residue-(4% acetic acid, 60°C, 30 min)	ppm		10	n.d.	30
Evaporation residue-(n-Heptane, 25°C, 1 hour)	ppm		10	n.d.	30
Evaporation residue-(20% alcohol, 60°C, 30 min)	ppm		10	n.d.	30
DEHP (Di-(2-ethylhexyl) phthalate) (CAS No.: 117-81-7) (n-Heptane, 25°C, 1 hour)	ppm		With reference to Sanitation Standard for Food Utensils, Containers and Packages-Plastics (MOHW Food No. 1021950607 announced, November 13, 2013). Analysis was performed by GC/MS.	0.05	n.d.
DBP (Di-n-butyl phthalate) (CAS No.: 84-74-2) (n-Heptane, 25°C, 1 hour)	ppm	0.05		n.d.	0.3

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Termse-Document.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of client's instruction, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced, except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested.

# Test Report

No. : CT/2015/41003 Date : 2015/05/08 Page : 3 of 5

NAN YA PLASTICS CORPORATION, POLYESTER FIBER DIVISION  
5TH FLOOR, NO. 201, TUN-HWA NORTH ROAD, TAIPEI, TAIWAN, R. O. C.



## (1.1)

Test Item (s)	Unit	Method	LOQ	Result	Limit
				No.1	
BBP (Butyl Benzyl phthalate) (CAS No.: 85-68-7) (n-Heptane, 25°C, 1 hour)	ppm	With reference to Sanitation Standard for Food Utensils, Containers and Packages- Plastics (MOHW Food No. 1021950607 announced, November 13, 2013). Analysis was performed by GC/MS.	0.05	n.d.	30
DIDP (Diisodecyl phthalate) (CAS No.: 26761-40-0; 68515- 49-1) (n-Heptane, 25°C, 1 hour)	ppm		0.5	n.d.	9
DINP (Diisononyl phthalate) (CAS No.: 28553-12-0; 68515- 48-0) (n-Heptane, 25°C, 1 hour)	ppm		0.5	n.d.	9
DEHA (Di-2-ethylhexyl Adipate) (CAS No.: 103-23-1) (n-Heptane, 25°C, 1 hour)	ppm		0.05	n.d.	18

## (1.2)

Test Item (s)	Unit	Method	MDL	Result	Limit
				No.1	
DEHP (Di-(2-ethylhexyl) phthalate) (CAS No.: 117-81-7) (* )	%	With reference to CNS 15138 method. Analysis was performed by GC/MS.	0.003	n.d.	0.1
DBP (Di-n-butyl phthalate) (CAS No.: 84-74-2) (* )	%		0.003	n.d.	0.1
BBP (Butyl Benzyl phthalate) (CAS No.: 85-68-7) (* )	%		0.003	n.d.	0.1
DIDP (Diisodecyl phthalate) (CAS No.: 26761-40-0; 68515- 49-1)(* )	%		0.01	n.d.	0.1
DINP (Diisononyl phthalate) (CAS No.: 28553-12-0; 68515- 48-0)(* )	%		0.01	n.d.	0.1
DMP (Dimethyl phthalate) (CAS No.: 131-11-3)(* )	%		0.003	n.d.	0.1
DNOP (Di-n-octyl phthalate) (CAS No.: 117-84-0) (* )	%		0.003	n.d.	0.1
DEP (Diethyl phthalate) (CAS No.: 84-66-2) (* )	%		0.003	n.d.	0.1

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Termse-Documents.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of client's instruction, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced, except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested.

# Test Report

No. : CT/2015/41003    Date : 2015/05/08    Page : 4 of 5

NAN YA PLASTICS CORPORATION, POLYESTER FIBER DIVISION  
5TH FLOOR, NO. 201, TUN-HWA NORTH ROAD, TAIPEI, TAIWAN, R. O. C.



## Note :

1. 0.1wt% = 1000ppm
2. LOQ = Limit of Quantification ; MDL = Method Detection Limit
3. n.d. = Not Detected = less than LOQ / MDL
4. Due to the commercial competition and other consideration the client can't provide information related to the submitted sample besides the information listed on the page one.
5. Negative = Undetectable / Positive = Detectable
6. (\*) : The item hasn't be accredited by Taiwan FDA.
7. The test report is the test result issued by the testing institutions as requested by the consignor. Regarding to the legitimacy of the product, it shall be determined by the authorities according to the law.

## Test Report

No. : CT/2015/41003 Date : 2015/05/08 Page : 5 of 5

NAN YA PLASTICS CORPORATION, POLYESTER FIBER DIVISION  
5TH FLOOR, NO. 201, TUN-HWA NORTH ROAD, TAIPEI, TAIWAN, R. O. C.



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

### CT/2015/41003



\*\* End of Report \*\*

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Termse-Document.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of client's instruction, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced, except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested.