

Test Report

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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

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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.	1.5
DBP (Di-n-butyl phthalate) (CAS No.: 84-74-2) (n-Heptane, 25°C, 1 hour)	ppm		0.05	n.d.	0.3

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(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

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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.

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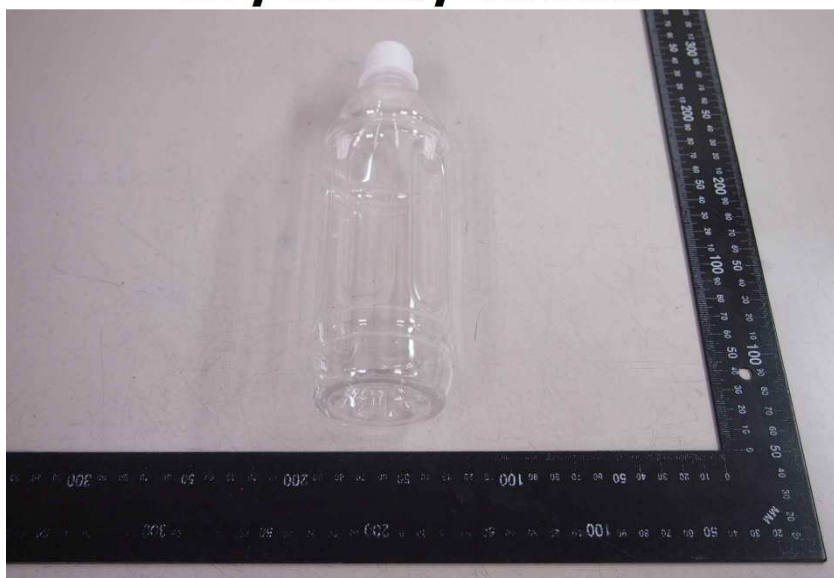
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* The tested sample / part is marked by an arrow if it's shown on the photo. *

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** End of Report **

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