



Chemical Laboratory - Kao., SGS Taiwan Ltd.

Test Report

No. : KE/2018/20362 Date : 2018/02/12 Page : 1 of 6

FORMOSA PLASTICS CORPORATION
8F, NO. 201, TUN HUA N. RD., TAIPEI, TAIWAN

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

Sample Description	:	FORMOCON
Style/Item No.	:	FM270
Material Component	:	POLYOXYMETHYLENE
Color	:	NATURE
Sample Receiving Date	:	2018/02/06
Testing Period	:	2018/02/06 TO 2018/02/12
Sample Submitted By	:	FORMOSA PLASTICS CORPORATION

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



Ray Chang Ph.D. / Manager - Techn
Signed for and on behalf of
SGS Taiwan Limited

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Test Result(s)

PART NAME NO.1 : NATURE COLORED POLYOXYMETHYLENE GRANULE

Test Item (s):	Unit	Method	MDL	Result
				No.1
MBP (Monobutyl phthalate) (CAS No.: 131-70-4)	%	With reference to EN 14372. Analysis was performed by GC/MS.	0.003	n.d.
DPrHP (Di(2-propylheptyl) phthaate) (CAS No.: 53306-54-0)	%		0.003	n.d.
1,2-Benzenedicarboxylic acid, dihexylester, branched and linear (CAS No.: 68515-50-4)	%		0.01	n.d.
1,2-Benzenedicarboxylic acid, dipentylester, branched and linear (CAS No.: 84777-06-0)	%		0.003	n.d.
nPiPP (N-pentyl-isopentylphthalate) (CAS No.: 776297-69-9)	%		0.003	n.d.
DINA (Di-isononyl adipate) (CAS No.: 33703-08-1)	%		0.01	n.d.
BBP (Butyl benzyl phthalate) (CAS No.: 85-68-7)	%		0.003	n.d.
DBP (Dibutyl phthalate) (CAS No.: 84-74-2)	%		0.003	n.d.
DEHP (Di- (2-ethylhexyl) phthalate) (CAS No.: 117-81-7)	%		0.003	n.d.
DIDP (Di-isodecyl phthalate) (CAS No.: 26761-40-0, 68515-49-1)	%		0.01	n.d.
DINP (Di-isononyl phthalate) (CAS No.: 28553-12-0, 68515-48-0)	%		0.01	n.d.
DNOP (Di-n-octyl phthalate) (CAS No.: 117-84-0)	%		0.003	n.d.
DEHA (Bis(2-ethylhexyl) adipate) (CAS No.: 103-23-1)	%		0.003	n.d.
DIBP (Di-isobutyl phthalate) (CAS No.: 84-69-5)	%		0.003	n.d.
DMP (Dimethyl phthalate) (CAS No.: 131-11-3)	%		0.003	n.d.
DPrP (Di-propyl phthalate) (CAS No.: 131-16-8)	%		0.003	n.d.
DCHP (Di-cyclohexyl phthalate) (CAS No.: 84-61-7)	%		0.003	n.d.
DEP (Di-ethyl phthalate) (CAS No.: 84-66-2)	%		0.003	n.d.

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Test Item (s):	Unit	Method	MDL	Result
				No.1
DIOP (Di-isooctyl phthalate) (CAS No.: 27554-26-3)	%	With reference to EN 14372. Analysis was performed by GC/MS.	0.01	n.d.
DNNP (Di-n-nonyl phthalate)(DNP) (CAS No.: 84-76-4)	%		0.003	n.d.
DNHP (Di-n-hexyl phthalate) (CAS No.: 84-75-3)	%		0.003	n.d.
DMEP (Bis (2-methoxyethyl) phthalate) (CAS No.: 117-82-8)	%		0.003	n.d.
DBZP(Dibenzyl phthalate) (CAS No.: 523-31-9)	%		0.003	n.d.
DPhP(Diphenyl phthalate) (CAS No.: 84-62-8)	%		0.003	n.d.
DIPP (Diisopentyl Phthalat) (CAS No.: 605-50-5)	%		0.003	n.d.
DEEP (bis (2-Ethoxyethyl)phthalate) (CAS No.: 605-54-9)	%		0.003	n.d.
DIHP (1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich) (CAS No.: 71888-89-6)	%		0.01	n.d.
DHNUP (1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters) (CAS No.: 68515-42-4)	%		0.01	n.d.
DAP (Diallyl phthalate) (CAS No.: 131-17-9)	%		0.003	n.d.
DNPP(Di-n-pentyl phthalate) (CAS No.: 131-18-0)	%		0.003	n.d.
MEHP (Mono(2-ethyl hexyl) Ester) (CAS No.: 4376-20-9)	%		0.003	n.d.
DEHT (Di(2-ethylhexyl) terephthalate) (CAS No.: 6422-86-2)	%		0.003	n.d.
DUDP (Di-n-undecyl phthalate) (CAS No.: 3648-20-2)	%		0.01	n.d.
DMTP (Dimethyl terephthalate) (CAS No.: 120-61-6)	%		0.003	n.d.
DNDP (Di-n-decyl phthalate) (CAS No.: 87-77-5)	%	0.003	n.d.	

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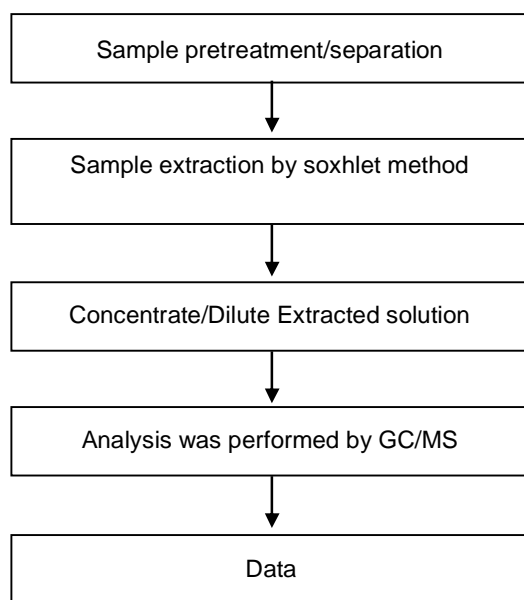
Test Item (s):	Unit	Method	MDL	Result
				No.1
DBEP (Bis(2-n-Butoxyethyl)phthalate) (CAS No.: 117-83-9)	%	With reference to EN 14372. Analysis was performed by GC/MS.	0.003	n.d.
BMPP (Di(4-methyl-2-Pentyl)phthalate) (CAS No.: 146-50-9)	%		0.003	n.d.
DHPP (Diheptyl Phthalate) (CAS No.: 3648-21-3)	%		0.003	n.d.
1,2-benzenedicarboxylic acid, di-C6-10- alkyl esters; 1,2-benzenedicarboxylic acid, mixed decyl and hexyl and octyl diesters with $\geq 0.3\%$ of dihexyl phthalate (CAS No.: 68515-51-5; 68648-93-1)	%		0.01	n.d.
DIHxP (Di-iso-hexylphthalate) (CAS NO.: 71850-09-4)	%		0.01	n.d.
1,2-benzenedicarboxylic acid, di-C6-10- alkyl esters; 1,2-benzenedicarboxylic acid, mixed decyl and hexyl and octyl diesters with $\geq 0.3\%$ of dihexyl phthalate (CAS No.: 68515-51-5; 68648-93-1)	%		0.01	n.d.

- Note :
1. mg/kg = ppm ; 0.1wt% = 1000ppm
 2. n.d. = Not Detected
 3. MDL = Method Detection Limit

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Analytical flow chart of phthalate content

- 1) Name of the person who made measurement: Dorothy Chen
- 2) Name of the person in charge of measurement: Ray Chang



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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 **