

## TEST REPORT

FORMOSA PLASTICS CORPORATION

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

REPORT NO.KE/2019/12222

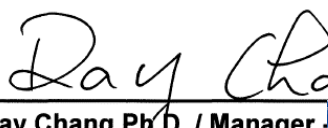
DATE: 2019/01/29


PAGE: 1 OF 6

THE FOLLOWING SAMPLE(S) WAS/WERE SUBMITTED AND IDENTIFIED BY/ON BEHALF OF THE CLIENT AS :

**SAMPLE DESCRIPTION** : FORMOCON.  
**COLOR** : NATURE.  
**STYLE/ITEM NO.** : FM025.  
**MATERIAL COMPOSITION** : POLYOXYMETHYLENE.  
**SAMPLE RECEIVED** : 2019/01/23.  
**TESTING PERIOD** : 2019/01/23 TO 2019/01/29.  
**SAMPLE SUBMITTED BY** : FORMOSA PLASTICS CORPORATION.

=====  
--- PLEASE SEE THE NEXT PAGE FOR TEST RESULT(S) ---

  
**Ray Chang Ph.D. / Manager - Tech**  
**Signed for and on behalf of**  
**SGS Taiwan Limited**  
**Chemical Laboratory-Kaohsiung**



Unless otherwise stated the results shown in this test report refer only to the sample(s) tested. This test report cannot be reproduced, except in full, without prior written permission of the Company. 除非另有說明，此報告結果僅對測試之樣品負責。本報告未經本公司書面許可，不可部分複製。  
This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at [www.sgs.com/terms\\_and\\_conditions.htm](http://www.sgs.com/terms_and_conditions.htm) and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at [www.sgs.com/terms\\_e-document.htm](http://www.sgs.com/terms_e-document.htm). 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 instructions, 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.

# TEST REPORT

REPORT NO.KE/2019/12222

DATE: 2019/01/29

PAGE: 2 OF 6

## TEST RESULT(S) :

TEST ITEM(S)	UNIT	METHOD	MDL	RESULT
<b>PHTHALATES</b>	---	---	---	---
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)	ppm	WITH REFERENCE TO EN 14372. ANALYSIS WAS PERFORMED BY GC-MS.	100	n.d.
1,2-BENZENEDICARBOXYLIC ACID, DIHEXYL ESTER, BRANCHED AND LINEAR (CAS NO.68515-50-4)	ppm	WITH REFERENCE TO EN 14372. ANALYSIS WAS PERFORMED BY GC-MS.	100	n.d.
1,2-BENZENEDICARBOXYLIC ACID, DIPENTYLESTER, BRANCHED AND LINEAR (CAS NO.84777-06-0)	ppm	WITH REFERENCE TO EN 14372. ANALYSIS WAS PERFORMED BY GC-MS.	30	n.d.
BUTYL BENZYL PHTHALATE (BBP) (CAS NO.85-68-7)	ppm	WITH REFERENCE TO EN 14372. ANALYSIS WAS PERFORMED BY GC-MS.	30	n.d.
BIS(4-METHYL-2-PENTYL) PHTHALATE (BMPP) (CAS NO.146-50-9)	ppm	WITH REFERENCE TO EN 14372. ANALYSIS WAS PERFORMED BY GC-MS.	30	n.d.
DIALLYL PHTHALATE (DAP) (CAS NO.131-17-9)	ppm	WITH REFERENCE TO EN 14372. ANALYSIS WAS PERFORMED BY GC-MS.	30	n.d.
BIS(2-N-BUTOXYETHYL) PHTHALATE (DBEP) (CAS NO.117-83-9)	ppm	WITH REFERENCE TO EN 14372. ANALYSIS WAS PERFORMED BY GC-MS.	30	n.d.
DIBUTYL PHTHALATE (DBP) (CAS NO.84-74-2)	ppm	WITH REFERENCE TO EN 14372. ANALYSIS WAS PERFORMED BY GC-MS.	30	n.d.

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested. This test report cannot be reproduced, except in full, without prior written permission of the Company. 除非另有說明，此報告結果僅對測試之樣品負責。本報告未經本公司書面許可，不可部分複製。  
This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at [www.sgs.com/terms\\_and\\_conditions.htm](http://www.sgs.com/terms_and_conditions.htm) and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at [www.sgs.com/terms\\_e-document.htm](http://www.sgs.com/terms_e-document.htm). 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 instructions, 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.

# TEST REPORT

REPORT NO.KE/2019/12222

DATE: 2019/01/29

PAGE: 3 OF 6

TEST ITEM(S)	UNIT	METHOD	MDL	RESULT
DIBENZYL PHTHALATE (DBZP) (CAS NO.523-31-9)	ppm	WITH REFERENCE TO EN 14372. ANALYSIS WAS PERFORMED BY GC-MS.	30	n.d.
DI-CYCLOHEXYL PHTHALATE (DCHP) (CAS NO.84-61-7)	ppm	WITH REFERENCE TO EN 14372. ANALYSIS WAS PERFORMED BY GC-MS.	30	n.d.
BIS(2-ETHOXYETHYL) PHTHALATE (DEEP) (CAS NO.605-54-9)	ppm	WITH REFERENCE TO EN 14372. ANALYSIS WAS PERFORMED BY GC-MS.	30	n.d.
BIS(2-ETHYLHEXYL) ADIPATE (DEHA) (CAS NO.103-23-1)	ppm	WITH REFERENCE TO EN 14372. ANALYSIS WAS PERFORMED BY GC-MS.	30	n.d.
BIS(2-ETHYLHEXYL) PHTHALATE (DEHP) (CAS NO.117-81-7)	ppm	WITH REFERENCE TO EN 14372. ANALYSIS WAS PERFORMED BY GC-MS.	30	n.d.
DI(2-ETHYLHEXYL) TEREPHTHALATE (DEHT) (CAS NO.6422-86-2)	ppm	WITH REFERENCE TO EN 14372. ANALYSIS WAS PERFORMED BY GC-MS.	30	n.d.
DIETHYL PHTHALATE (DEP) (CAS NO.84-66-2)	ppm	WITH REFERENCE TO EN 14372. ANALYSIS WAS PERFORMED BY GC-MS.	30	n.d.
1,2-BENZENEDICARBOXYLIC ACID, DI-C7-11-BRANCHED AND LINEAR ALKYL ESTERS (DHNUP) (CAS NO.68515-42-4)	ppm	WITH REFERENCE TO EN 14372. ANALYSIS WAS PERFORMED BY GC-MS.	100	n.d.
DIHEPTYL PHTHALATE (DHpP) (CAS NO.3648-21-3)	ppm	WITH REFERENCE TO EN 14372. ANALYSIS WAS PERFORMED BY GC-MS.	30	n.d.
DI-ISOBUTYL PHTHALATE (DIBP) (CAS NO.84-69-5)	ppm	WITH REFERENCE TO EN 14372. ANALYSIS WAS PERFORMED BY GC-MS.	30	n.d.
DI-ISO-DECYL PHTHALATE (DIDP) (CAS NO.26761-40-0/68515-49-1)	ppm	WITH REFERENCE TO EN 14372. ANALYSIS WAS PERFORMED BY GC-MS.	100	n.d.

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested. This test report cannot be reproduced, except in full, without prior written permission of the Company. 除非另有說明，此報告結果僅對測試之樣品負責。本報告未經本公司書面許可，不可部分複製。  
This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at [www.sgs.com/terms\\_and\\_conditions.htm](http://www.sgs.com/terms_and_conditions.htm) and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at [www.sgs.com/terms\\_e-document.htm](http://www.sgs.com/terms_e-document.htm). 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 instructions, 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.

# TEST REPORT

REPORT NO.KE/2019/12222

DATE: 2019/01/29

PAGE: 4 OF 6

TEST ITEM(S)	UNIT	METHOD	MDL	RESULT
1,2-BENZENEDICARBOXYLIC ACID, DI-C6-8-BRANCHED ALKYL ESTERS, C7-RICH (DIHP) (CAS NO.71888-89-6)	ppm	WITH REFERENCE TO EN 14372. ANALYSIS WAS PERFORMED BY GC-MS.	100	n.d.
DI-ISO-HEXYLPHTHALATE (DIHxP) (CAS NO.71850-09-4)	ppm	WITH REFERENCE TO EN 14372. ANALYSIS WAS PERFORMED BY GC-MS.	100	n.d.
DI-ISO-NONYL ADIPATE (DINA) (CAS NO.33703-08-1)	ppm	WITH REFERENCE TO EN 14372. ANALYSIS WAS PERFORMED BY GC-MS.	100	n.d.
DI ISONONYL PHTHALATE (DINP) (CAS NO.28553-12-0/68515-48-0)	ppm	WITH REFERENCE TO EN 14372. ANALYSIS WAS PERFORMED BY GC-MS.	100	n.d.
DI-ISOOCTYL PHTHALATE (DIOP) (CAS NO.27554-26-3)	ppm	WITH REFERENCE TO EN 14372. ANALYSIS WAS PERFORMED BY GC-MS.	100	n.d.
DIISOPENTYL PHTHALATE (DiPP) (CAS NO.605-50-5)	ppm	WITH REFERENCE TO EN 14372. ANALYSIS WAS PERFORMED BY GC-MS.	30	n.d.
BIS-(2-METHOXYETHYL) PHTHALATE (DMEP) (CAS NO.117-82-8)	ppm	WITH REFERENCE TO EN 14372. ANALYSIS WAS PERFORMED BY GC-MS.	30	n.d.
DIMETHYL PHTHALATE (DMP) (CAS NO.131-11-3)	ppm	WITH REFERENCE TO EN 14372. ANALYSIS WAS PERFORMED BY GC-MS.	30	n.d.
DIMETHYL TEREPHTHALATE (DMTP) (CAS NO.120-61-6)	ppm	WITH REFERENCE TO EN 14372. ANALYSIS WAS PERFORMED BY GC-MS.	30	n.d.
DI-N-DECYL PHTHALATE (DnDP) (CAS NO.84-77-5)	ppm	WITH REFERENCE TO EN 14372. ANALYSIS WAS PERFORMED BY GC-MS.	30	n.d.
DI-N-HEXYL PHTHALATE (DNHP) (CAS NO.84-75-3)	ppm	WITH REFERENCE TO EN 14372. ANALYSIS WAS PERFORMED BY GC-MS.	30	n.d.

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested. This test report cannot be reproduced, except in full, without prior written permission of the Company. 除非另有說明，此報告結果僅對測試之樣品負責。本報告未經本公司書面許可，不可部分複製。  
This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at [www.sgs.com/terms\\_and\\_conditions.htm](http://www.sgs.com/terms_and_conditions.htm) and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at [www.sgs.com/terms\\_e-document.htm](http://www.sgs.com/terms_e-document.htm). 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 instructions, 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.

# TEST REPORT

REPORT NO.KE/2019/12222

DATE: 2019/01/29

PAGE: 5 OF 6

TEST ITEM(S)	UNIT	METHOD	MDL	RESULT
DI-N-NONYL PHTHALATE (DNNP) (CAS NO.84-76-4)	ppm	WITH REFERENCE TO EN 14372. ANALYSIS WAS PERFORMED BY GC-MS.	30	n.d.
DI-N-OCTYL PHTHALATE (DNOP) (CAS NO.117-84-0)	ppm	WITH REFERENCE TO EN 14372. ANALYSIS WAS PERFORMED BY GC-MS.	30	n.d.
DIPHENYL PHTHALATE (DPhP) (CAS NO.84-62-8)	ppm	WITH REFERENCE TO EN 14372. ANALYSIS WAS PERFORMED BY GC-MS.	30	n.d.
DIPENTYL PHTHALATE (DPP) (CAS NO.131-18-0)	ppm	WITH REFERENCE TO EN 14372. ANALYSIS WAS PERFORMED BY GC-MS.	30	n.d.
DI(2-PROPYLHEPTYL) PHTHALATE (DPrHP) (CAS NO.53306-54-0)	ppm	WITH REFERENCE TO EN 14372. ANALYSIS WAS PERFORMED BY GC-MS.	100	n.d.
DI-N-PROPYL PHTHALATE(DPrP) (CAS NO.131-16-8)	ppm	WITH REFERENCE TO EN 14372. ANALYSIS WAS PERFORMED BY GC-MS.	30	n.d.
DI-N-UNDECYL PHTHALATE(DUDP) (CAS NO.3648-20-2)	ppm	WITH REFERENCE TO EN 14372. ANALYSIS WAS PERFORMED BY GC-MS.	100	n.d.
MONOBUTYL PHTHALATE(MBP) (CAS NO.131-70-4)	ppm	WITH REFERENCE TO EN 14372. ANALYSIS WAS PERFORMED BY GC-MS.	30	n.d.
MONO-2-ETHYLHEXYL PHTHALATE(MEHP) (CAS NO.4376-20-9)	ppm	WITH REFERENCE TO EN 14372. ANALYSIS WAS PERFORMED BY GC-MS.	30	n.d.
n-PENTYL-ISOPENTYL PHTHALATE (nPiPP) (CAS NO.776297-69-9)	ppm	WITH REFERENCE TO EN 14372. ANALYSIS WAS PERFORMED BY GC-MS.	30	n.d.
UNDECYL DODECYL PHTHALATE(UDP) (CAS NO.68515-47-9)	ppm	WITH REFERENCE TO EN 14372. ANALYSIS WAS PERFORMED BY GC-MS.	250	n.d.

NOTE 1 : mg/kg=ppm

NOTE 2 : MDL = METHOD DETECTION LIMIT.

NOTE 3 : n.d. = Not Detected.

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested. This test report cannot be reproduced, except in full, without prior written permission of the Company. 除非另有說明，此報告結果僅對測試之樣品負責。本報告未經本公司書面許可，不可部分複製。 This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at [www.sgs.com/terms\\_and\\_conditions.htm](http://www.sgs.com/terms_and_conditions.htm) and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at [www.sgs.com/terms\\_e-document.htm](http://www.sgs.com/terms_e-document.htm). 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 instructions, 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.

## TEST REPORT

REPORT NO.KE/2019/12222

DATE: 2019/01/29

PAGE: 6 OF 6

### SAMPLE PHOTO

## KE/2019/12222



\*\* END OF REPORT \*\*

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested. This test report cannot be reproduced, except in full, without prior written permission of the Company. 除非另有說明，此報告結果僅對測試之樣品負責。本報告未經本公司書面許可，不可部分複製。  
This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at [www.sgs.com/terms\\_and\\_conditions.htm](http://www.sgs.com/terms_and_conditions.htm) and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at [www.sgs.com/terms\\_e-document.htm](http://www.sgs.com/terms_e-document.htm). 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 instructions, 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.