

TEST REPORT

FORMOSA PLASTICS CORPORATION

NO. 100, SHUI-GUAN RD., JEN-WU DIST., KAOHSIUNG CITY,
TAIWAN (R.O.C.)

REPORT NO.KE/2019/11931

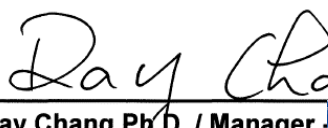
DATE: 2019/01/25


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

SAMPLE DESCRIPTION : IMPACT MODIFIER ADDITIVE.
COLOR : WHITE.
STYLE/ITEM NO. : M-31.
MATERIAL COMPOSITION : IMPACT MODIFIER ADDITIVE.
SAMPLE RECEIVED : 2019/01/21.
TESTING PERIOD : 2019/01/21 TO 2019/01/25.
SAMPLE SUBMITTED BY : FORMOSA PLASTICS CORPORATION.

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--- 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



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TEST RESULT(S) :

| TEST ITEM(S) | UNIT | METHOD | MDL | RESULT |
|--|------|--|-----|--------|
| PHTHALATES | --- | --- | --- | --- |
| 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. |

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| 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. |

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| 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. |

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| 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.

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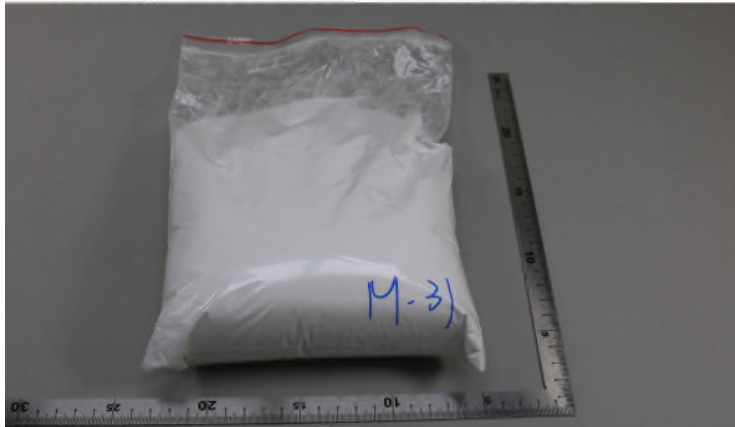
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SAMPLE PHOTO

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** END OF REPORT **

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