

## Test Report

No. CANEC1914860702

Date: 05 Aug 2019

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DONG GUAN UGET PLASTICS CO.,LTD  
TANKENG 3RD IND ZONE HENGLI TOWN DONGGUAN CITY CHINA

The following sample(s) was/were submitted and identified on behalf of the clients as : TPU RESIN

SGS Job No. : CP19-041301 - SZ  
Model No. : TPU PELLET  
Client Ref. Info. : Please see remark  
Date of Sample Received : 30 Jul 2019  
Testing Period : 30 Jul 2019 - 05 Aug 2019  
Test Requested : Selected test(s) as requested by client.  
Test Method : Please refer to next page(s).  
Test Results : Please refer to next page(s).

Signed for and on behalf of  
SGS-CSTC Standards Technical Services Co., Ltd. Guangzhou Branch

Zmguan

Zm guan  
Approved Signatory



Test Results :

Test Part Description :

Specimen No.	SGS Sample ID	Description
SN1	CAN19-148607.001	Colorless transparent plastic grains

Remarks :

- (1) 1 mg/kg = 1 ppm = 0.0001%
- (2) MDL = Method Detection Limit
- (3) ND = Not Detected ( < MDL )
- (4) "-" = Not Regulated

Phthalate

Test Method : With reference to EN14372: 2004. Analysis was performed by GC-MS.

Test Item(s)	CAS NO.	Unit	MDL	001
Dibutyl Phthalate (DBP)	84-74-2	%(w/w)	0.003	ND
Benzylbutyl Phthalate (BBP)	85-68-7	%(w/w)	0.003	ND
Bis(2-ethylhexyl) Phthalate (DEHP)	117-81-7	%(w/w)	0.003	ND
Diisononyl Phthalate (DINP)	28553-12-0 / 68515-48-0	%(w/w)	0.010	ND
Di-n-octyl Phthalate (DNOP)	117-84-0	%(w/w)	0.003	ND
Diisodecyl Phthalate (DIDP)	26761-40-0 / 68515-49-1	%(w/w)	0.010	ND
Dimethyl Phthalate (DMP)	131-11-3	%(w/w)	0.003	ND
Diethyl Phthalate (DEP)	84-66-2	%(w/w)	0.003	ND
Dipropyl Phthalate (DPrP)	131-16-8	%(w/w)	0.003	ND
Diisobutyl Phthalate (DIBP)	84-69-5	%(w/w)	0.003	ND
Di-n-pentyl Phthalate (DnPP)	131-18-0	%(w/w)	0.003	ND
Di-n-hexyl Phthalate (DnHP)	84-75-3	%(w/w)	0.003	ND
Dicyclohexyl Phthalate (DCHP)	84-61-7	%(w/w)	0.003	ND
Diphenyl Phthalate (DPhP)	84-62-8	%(w/w)	0.003	ND
Dibenzyl Phthalate (DBzP)	523-31-9	%(w/w)	0.003	ND
Dinonyl Phthalate (DNP)	84-76-4	%(w/w)	0.003	ND
Diisooctyl Phthalate (DIOP)	27554-26-3	%(w/w)	0.010	ND
Bis(2-methoxyethyl) Phthalate (DMEP)	117-82-8	%(w/w)	0.003	ND
Diallyl Phthalate (DAP)	131-17-9	%(w/w)	0.003	ND
n-decyl, n-octyl Phthalate (nDnOP)	119-07-3	%(w/w)	0.003	ND



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Test Item(s)	CAS NO.	Unit	MDL	001
Di-n-decyl Phthalate (DnDP)	84-77-5	%(w/w)	0.003	ND
Diisopentyl Phthalate (DIPP)	605-50-5	%(w/w)	0.003	ND
n-pentyl Isopentyl Phthalate (nPIPP)	776297-69-9	%(w/w)	0.003	ND
1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich (DIHP)	71888-89-6	%(w/w)	0.010	ND
1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters (DHNU)	68515-42-4	%(w/w)	0.010	ND
Di(2-ethylhexyl)adipate (DEHA)	103-23-1	%(w/w)	0.003	0.029
Bis(4-methyl-2-pentyl) Phthalate (BMPP)	146-50-9	%(w/w)	0.003	ND
Bis(2-ethoxyethyl) Phthalate (DEEP)	605-54-9	%(w/w)	0.003	ND
Bis(2-n-butoxyethyl) Phthalate (DBEP)	117-83-9	%(w/w)	0.003	ND
Diundecyl Phthalate (DUDP)	3648-20-2	%(w/w)	0.003	ND
Diisononyl adipate (DINA)	33703-08-1	%(w/w)	0.010	ND
Ditridecyl Phthalate (DTDP)	119-06-2	%(w/w)	0.003	ND
Trioctyl trimellitate (TOTM)	3319-31-1	%(w/w)	0.003	ND
Diocetyl Terephthalate (DOTP)	6422-86-2	%(w/w)	0.003	ND
Di-n-heptyl Phthalate (DnHpP)	3648-21-3	%(w/w)	0.003	ND
Di(2-propylheptyl) Phthalate(DPHpP)	53306-54-0	%(w/w)	0.010	ND
1,2-Benzenedicarboxylic acid, dihexyl ester branched and linear(DHP)	68515-50-4	%(w/w)	0.010	ND
1,2-Benzenedicarboxylic acid, dipentyl ester, branched and linear (DPP)	84777-06-0	%(w/w)	0.010	ND
1,2-benzenedicarboxylic acid, di-C6-10-alkyl esters; 1,2-benzenedicarboxylic acid,mixed decyl and hexyl and octyl diesters with ≥ 0.3% of dihexyl phthalate	68515-51-5/68648-93-1	%(w/w)	0.010	ND
1,2-Cyclohexane dicarboxylic acid, di-isononyl ester (DINCH)	166412-78-8	%(w/w)	0.010	ND
Acetyltributylcitrate (Citroflex, ATBC)	77-90-7	%(w/w)	0.010	ND
Di-iso-hexylphthalate (DIHxP)	71850-09-4	%(w/w)	0.010	ND
Hexahydromethylphthalic anhydride,Hexahydro-4-methylphthalic anhydride,Hexahydro-1-methylphthalic anhydride,Hexahydro-3-methylphthalic anhydride (MHPA)	☆	%(w/w)	0.010	ND

### Notes :

- (1) DBP,BBP,DEHP, DIBP Reference information: Entry 51 of Regulation (EU) No2018/2005 amending Annex XVII of REACH Regulation (EC) No 1907/2006:
- i) Shall not be used as substances or in mixtures, individually or in any combination of DBP, BBP, DEHP & DIBP, in concentrations equal to or greater than 0.1 % by weight of the plasticised material, in toys and childcare articles.



ii) Shall not be placed on the market in toys or childcare articles, individually or in any combination of DBP, BBP, DEHP, in concentrations equal to or greater than 0.1 % by weight of the plasticised material. In addition, DIBP shall not be placed on the market after 7 July 2020 in toys or childcare articles, individually or in any combination of DBP, BBP, DEHP & DIBP, in concentrations equal to or greater than 0.1 % by weight of the plasticised material.

iii) shall not be placed on the market after 7 July 2020 in articles, individually or in any combination of DBP, BBP, DEHP & DIBP, in concentrations equal to or greater than 0.1 % by weight of the plasticised material in the articles.

Please refer to Regulation (EU) No 2018/2005 to get more detail information.

(2) DINP, DNOP, DIDP Reference information: Entry 52 of Regulation (EC) No 552/2009 amending Annex XVII of REACH Regulation (EC) No 1907/2006 (previously restricted under Directive 2005/84/EC).

i) Shall not be used as substances or in mixtures, in concentrations greater than 0.1 % by weight of the plasticised material, in toys and childcare articles which can be placed in the mouth by children.

ii) Such toys and childcare articles containing these phthalates in a concentration greater than 0.1 % by weight of the plasticised material shall not be placed on the market.

Please refer to Regulation (EC) No 552/2009 to get more detail information.

(3) ☆CAS No.of Hexahydromethylphthalic anhydride,Hexahydro-4-methylphthalic anhydride,Hexahydro-1-methylphthalic anhydride,Hexahydro-3-methylphthalic anhydride (MHHPA): 25550-51-0,19438-60-9,48122-14-1,57110-29-9.

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Remark

A-80A A-83A A-85A A-90A A-95A A-98A A-60D A-64D A-72D A-82AQD8 LW85AQD8  
 LW92AQD8 A-95AQD8 A-98AQD8 A-55DQD8(9) A-60DQD8 A-64DQD8(9) A-72DQD8  
 B80AY B82AY B85AY B90AY B92AY RT90AH B95AYS B90A B95A B98A B64D  
 B64DY B68D B-95A(S) BC85A BC90A BC92A BC95A C0-80AH C0-85AHU C0-90AHU  
 C0-95AHU C0-95A C-85A C-90A C-95A C-98A C-60D C-64D C1-66D C-71D  
 E-285A E-290A E-295A(T) E-298A E-475A E-485A D/E-485A E-490A E-495A E-98A  
 E-60D E-80A EV-85A EV-90A EV-95A EW-80A EW-83A EW-85A EW-90A EW-95A  
 EW-98A EW-53D EW-75AP EW-80AP EW-95AP V-80A(P) V-85A V-90A V-95A V-60D  
 V-64D V-80AP V-85AP V-90AP V-95AP G-85A G-95A G-85AS G-64D G-180A G-185A  
 G-285A G-190A (S) G-195A G-198A G-160D G-164D G-171D G-174D G-168D  
 G-98AU23C G-160DU G-74D G-380A G-383A G-385A G-390A G-395A G-398A G-360D  
 G-365D G-371D G-80AU G-85AU G-90AU G-92AU G-95AU G-98AU G-64DU G-74DU  
 D/G-95AU D/G-95AUX G-92AUX G-92AUXL G-95AUX G-90AU G-95AU G-98AU23 98AU  
 I-60A I-65A I-70A I-72A I-75A S-62A S-65A S-70A S-75A S-75AU T-0285A T-0290A  
 T-0295A T-0298A(U) T-0260D T-1185A T-1190A T-1195A(U)(S) T-1198A T-1164D(U)(S)  
 T-1172D T-1174D(U)(S) T-1285A(S) T-1290A(S) T-1295A(S) T-695A(S) T-1160D(S)  
 T-1164D(S) T-690A(S) T-680A(S) T-685A T-685AS T-695AS T-664DS T-664D T-698A  
 T-671D T-885A T-890A T-0290AU T-1285AS 29095A 260D 285A 295A 292 385A  
 P-64D P-75A P-80A P-85A P-90A P-95A P-98A P-60D P-64D P-92A A-XXX B-XXX  
 C0-XXX C-XXX E-XXX EV-XXX EW-XXX V-XXX G-XXX I-XXX S-XXX T-XXX P-XXX  
 2XXX 3XXX

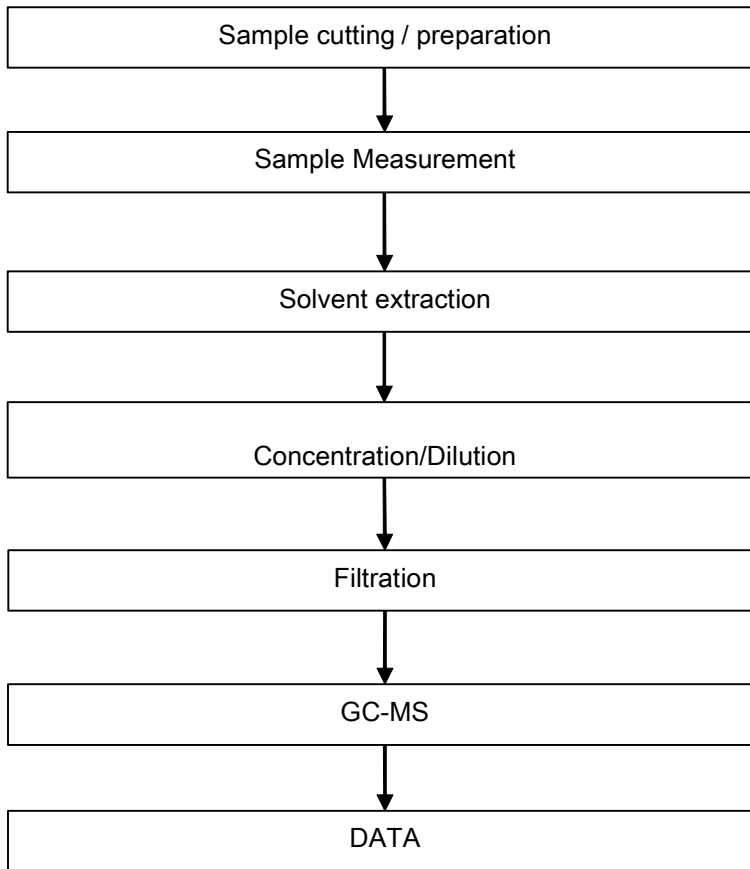


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## ATTACHMENTS

### Phthalates Testing Flow Chart



Sample photo:



SGS authenticate the photo on original report only

\*\*\* End of Report \*\*\*

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