

Test Report

No. SZXEC1901042601

Date: 22 May 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. : RP19-010001 - SZ

Model No. : TPU

Client Ref. Info. : Please see remark

Date of Sample Received : 17 May 2019

Testing Period : 17 May 2019 - 22 May 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).

Conclusion : Based on the performed tests on submitted sample(s), the results of Lead, Mercury, Cadmium, Hexavalent chromium, Polybrominated biphenyls (PBBs), Polybrominated diphenyl ethers (PBDEs) and Phthalates such as Bis(2-ethylhexyl) phthalate (DEHP) , Butyl benzyl phthalate (BBP), Dibutyl phthalate (DBP) , and Diisobutyl phthalate (DIBP) comply with the limits as set by RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU.

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

Sunny

Sunny Nie
Approved Signatory



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Test Results :

Test Part Description :

Specimen No.	SGS Sample ID	Description
SN1	SZX19-010426.001	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

RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU

Test Method : With reference to IEC 62321-4:2013+A1:2017, IEC62321-5:2013, IEC62321-7-2:2017, IEC 62321-6:2015 and IEC62321-8:2017, analyzed by ICP-OES, UV-Vis and GC-MS.

Test Item(s)	Limit	Unit	MDL	001
Cadmium (Cd)	100	mg/kg	2	ND
Lead (Pb)	1,000	mg/kg	2	ND
Mercury (Hg)	1,000	mg/kg	2	ND
Hexavalent Chromium (Cr(VI))	1,000	mg/kg	8	ND
Sum of PBBs	1,000	mg/kg	-	ND
Monobromobiphenyl	-	mg/kg	5	ND
Dibromobiphenyl	-	mg/kg	5	ND
Tribromobiphenyl	-	mg/kg	5	ND
Tetrabromobiphenyl	-	mg/kg	5	ND
Pentabromobiphenyl	-	mg/kg	5	ND
Hexabromobiphenyl	-	mg/kg	5	ND
Heptabromobiphenyl	-	mg/kg	5	ND
Octabromobiphenyl	-	mg/kg	5	ND
Nonabromobiphenyl	-	mg/kg	5	ND
Decabromobiphenyl	-	mg/kg	5	ND
Sum of PBDEs	1,000	mg/kg	-	ND
Monobromodiphenyl ether	-	mg/kg	5	ND
Dibromodiphenyl ether	-	mg/kg	5	ND
Tribromodiphenyl ether	-	mg/kg	5	ND
Tetrabromodiphenyl ether	-	mg/kg	5	ND
Pentabromodiphenyl ether	-	mg/kg	5	ND



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Test Item(s)	Limit	Unit	MDL	001
Hexabromodiphenyl ether	-	mg/kg	5	ND
Heptabromodiphenyl ether	-	mg/kg	5	ND
Octabromodiphenyl ether	-	mg/kg	5	ND
Nonabromodiphenyl ether	-	mg/kg	5	ND
Decabromodiphenyl ether	-	mg/kg	5	ND
Dibutyl Phthalate (DBP)	1000	mg/kg	50	ND
Butyl benzyl Phthalate (BBP)	1000	mg/kg	50	ND
Bis(2-ethylhexyl) Phthalate (DEHP)	1000	mg/kg	50	ND
Diisobutyl Phthalate (DIBP)	1000	mg/kg	50	ND

Notes :

(1) The maximum permissible limit is quoted from RoHS Directive (EU) 2015/863.

IEC 62321 series is equivalent to EN 62321 series

http://www.cenelec.eu/dyn/www/f?p=104:30:1742232870351101:::FSP_ORG_ID,FSP_LANG_ID:1258637,25



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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-5DQD8(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 T-698AU T-470AU T-495AU T-492AUL
T-1172DU 185 190R 190A 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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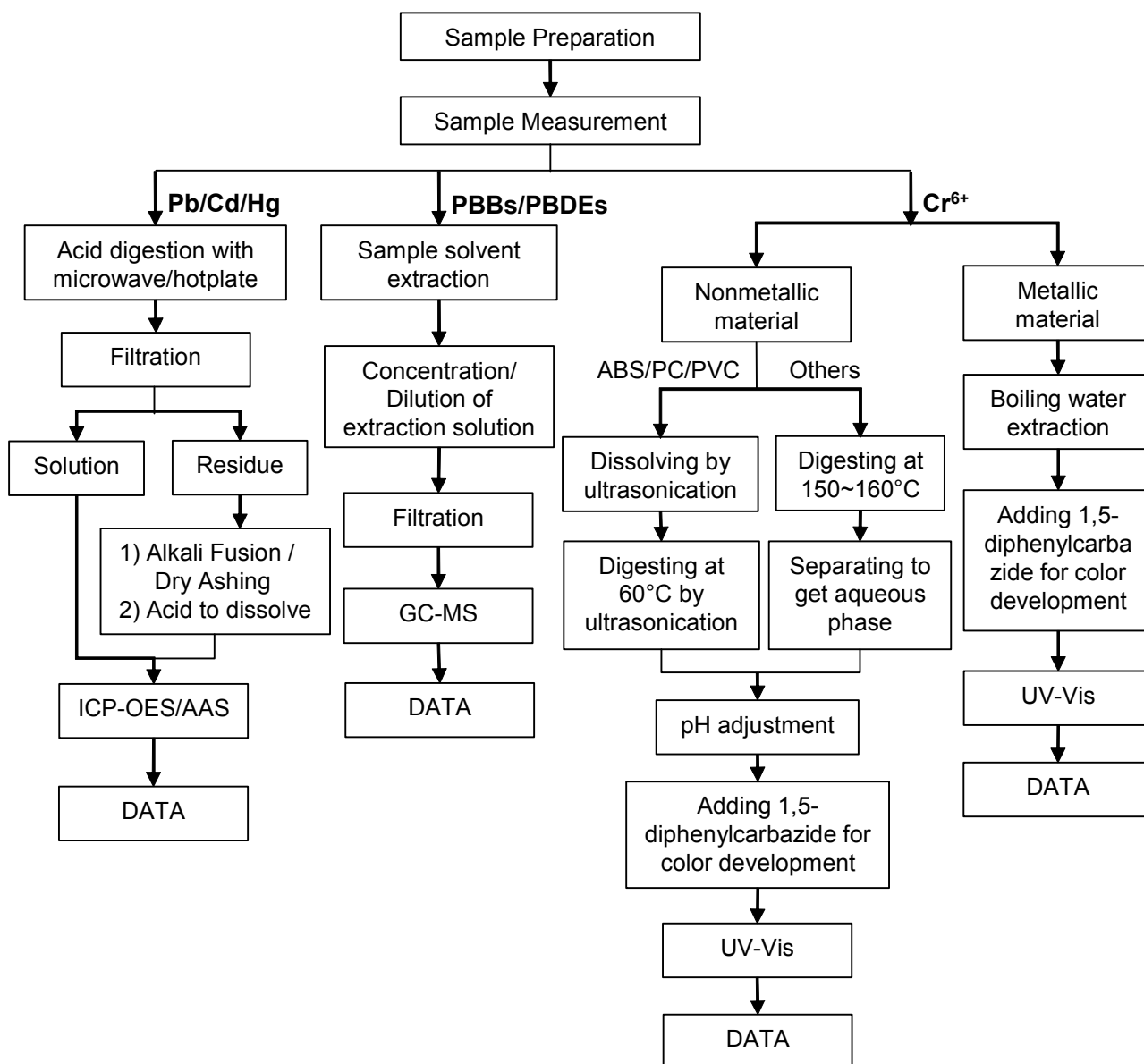
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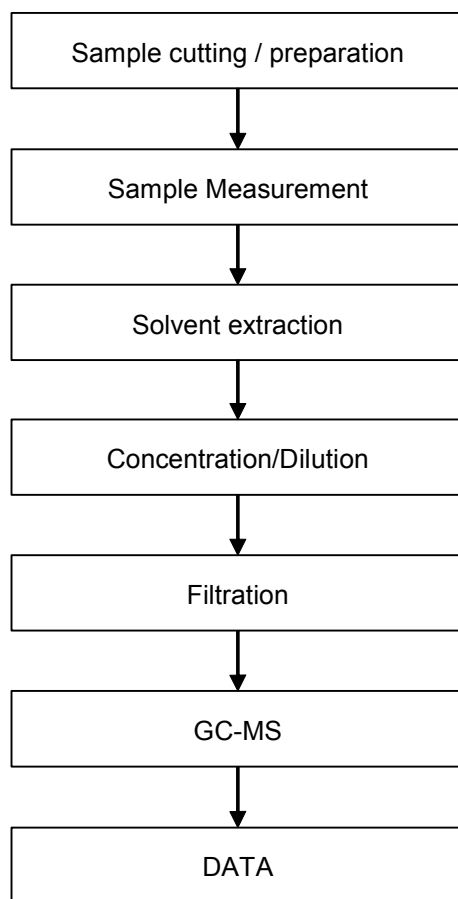
Pb/Cd/Hg/Cr⁶⁺/PBBs/PBDEs Testing Flow Chart

1) These samples were dissolved totally by pre-conditioning method according to below flow chart.
(Cr⁶⁺ and PBBs/PBDEs test method excluded).



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Phthalates Testing Flow Chart



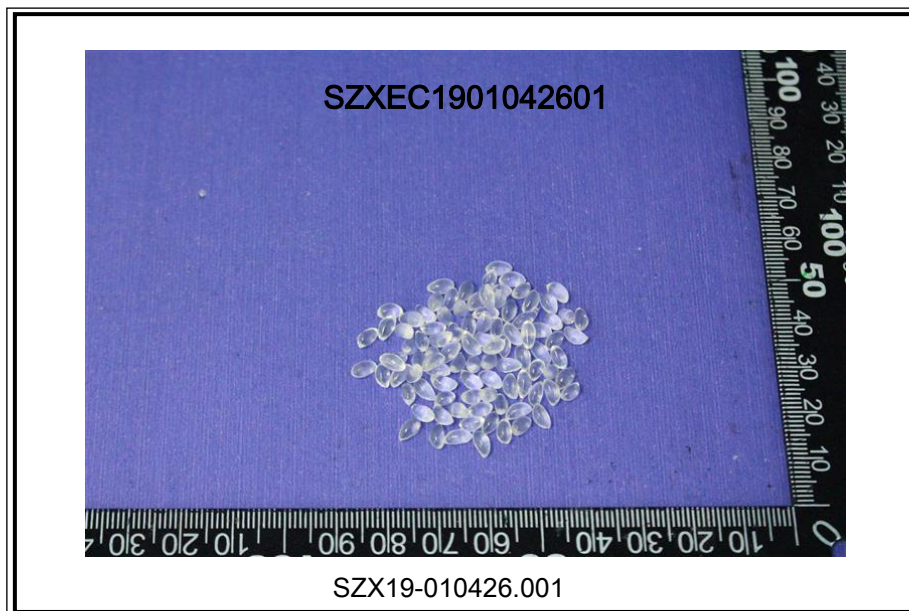
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Sample photo:



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