

No. CANEC1511361701

Date: 09 Jul 2015

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

FILM

SGS Job No.:

CP15-037672 - GZ

Model No.:

ECS01

Main Substance:

Cellulose Acetate

Date of Sample Received :

03 Jul 2015

Testing Period:

03 Jul 2015 - 09 Jul 2015

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. Guangzhou Branch

Echo

Echo Yeung Approved Signatory



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Test Results:

Test Part Description:

Specimen No. SGS Sample ID Description

CAN15-113617.001 Transparent sheet SN1

Remarks:

(1) 1 mg/kg = 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: (1)With reference to IEC 62321-5:2013, determination of Cadmium by ICP-OES.

(2) With reference to IEC 62321-5:2013, determination of Lead by ICP-OES.

(3)With reference to IEC 62321-4:2013, determination of Mercury by ICP-OES.

(4)With reference to IEC 62321:2008, determination of Hexavalent Chromium by Colorimetric

Method using UV-Vis.

(5) With reference to IEC 62321-6:2015, determination of PBBs and PBDEs by GC-MS.

(6) With reference to EN 14372:2004, determination of phthalates by GC-MS.

Test Item(s)	<u>Limit</u>	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 (CrVI)	1,000	mg/kg	2	ND
Sum of PBBs	1,000	mg/kg	5	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	5	ND



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#### Page 3 of 6 Date: 09 Jul 2015 Test Report No. CANEC1511361701 MDL 001 Limit Unit Test Item(s) ND 5 mg/kg Monobromodiphenyl ether ND 5 Dibromodiphenyl ether mg/kg 5 ND Tribromodiphenyl ether mg/kg ND mg/kg 5 Tetrabromodiphenyl ether mg/kg 5 ND Pentabromodiphenyl ether ND Hexabromodiphenyl ether mg/kg 5 ND mg/kg Heptabromodiphenyl ether ND 5 Octabromodiphenyl ether mg/kg 5 ND Nonabromodiphenyl ether mg/kg ND 5 Decabromodiphenyl ether mg/kg ND Dibutyl phthalate (DBP) 1,000 mg/kg 30 Butyl benzyl phthalate (BBP) 1,000 mg/kg 30 ND Bis (2-ethylhexyl) phthalate (DEHP) 1,000 mg/kg 30 ND Diisobutyl Phthalates (DIBP) 1,000 mg/kg 30 ND

#### Notes:

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



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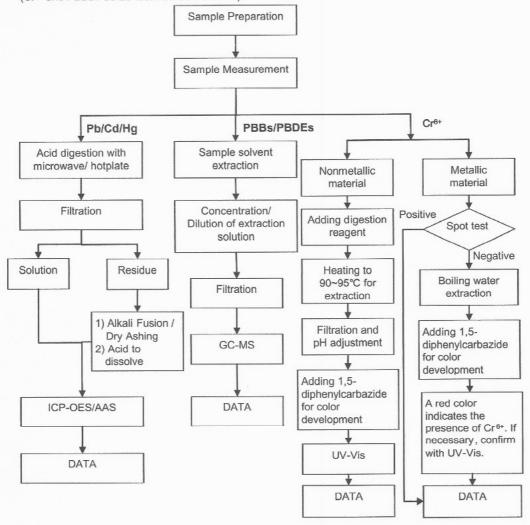
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## **ATTACHMENTS**

## **RoHS Testing Flow Chart**

- 1) Name of the person who made testing: Bruce Xiao / Sunny Hu
- 2) Name of the person in charge of testing: Bella Wang / Cutey Yu
- 3) 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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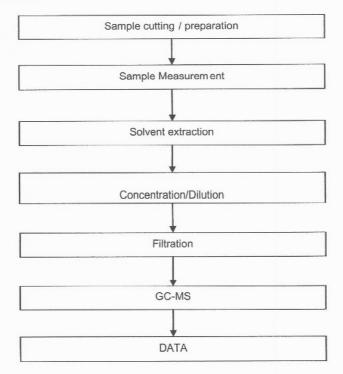
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## **ATTACHMENTS**

## Phthalates Testing Flow Chart

- 1) Name of the person who made testing: Sunny Hu
- 2) Name of the person in charge of testing: Cutey Yu





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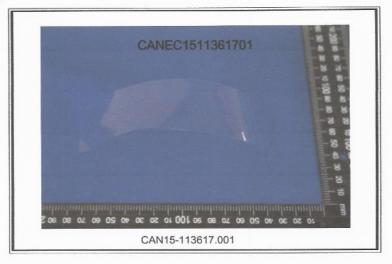


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Sample photo:



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