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中国认可  
国际互认  
检测  
TESTING  
CNAS L6760

# Test Report

Report No HAP18122316503R1

Page: 1 of 4

Applicant JF Polymers(Suzhou) Co.,Ltd.

Address Haicheng Industrial Park,Bldg 7,Changshu Economic and Technological Zone,Changshu,Jiangsu Province ,China

## Sample Information

Sample Name PolyLite™ PETG

Sample Description Material: filament

\*The information above is provided and confirmed by the applicant.

Sample Received Date Dec.24,2018

Testing Period Dec.24,2018 to Dec.27,2018

## Testing Requested

As per client's request,to determine the RoHS 2.0 (Pb,Cd,Hg,Cr<sup>6+</sup>, PBBs, PBDEs, DBP,BBP,DEHP,DIBP) in the submitted sample according to RoHS Directive 2015/863/EU Annex II.

## Testing Results

Please refer to next page(s)

## Remark

Based on the test samples,the test results of Cadmium(Cd),Lead(Pb),Mercury(Hg), Hexavalent Chromium (Cr<sup>6+</sup>),The sum of Polybrominated Biphenyls(PBBs) and The sum of Polybrominated Diphenyl Ethers(PBDEs) ,Dibutyl Phthalate (DBP) ,Benzylbutyl Phthalate (BBP) ,Bis-(2-ethylhexyl) Phthalate (DEHP) ,Diisobutyl phthalate (DIBP) comply with the limits as set by RoHS Directive 2015/863/EU Annex II.

Signer:

*Paul. Chen*  
Authorized signatory

Date: Dec.29,2018

[Website of verification report: CNCA verification platform yz.cncaic.cn](http://yz.cncaic.cn)

江苏环谱检测技术服务有限公司

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Page: 2 of 4

## Determination of RoHS 2.0 (unit: mg/kg)

### Testing method

- (1) With reference to IEC 62321-5:2013. By ICP - OES for measuring;
- (2) With reference to IEC 62321-4:2013. By ICP-OES for measuring;
- (3) With reference to IEC 62321-7-2:2017. By UV-VIS for measuring;
- (4) With reference to IEC 62321-6:2015. By GC-MS for measuring.
- (5) With reference to IEC 62321-8:2017 .By GC-MS for measuring.

Testing Item(s)	Method	MDL	Limit	Results
Lead (Pb)	(1)	2	1000	ND
Cadmium (Cd)		2	100	ND
Mercury (Hg)	(2)	2	1000	ND
Chromium(VI) (Cr <sup>6+</sup> )	(3)	8	1000	ND
Polybrominated Biphenyls (PBBs)	(4)	—	1000	ND
Polybrominated Diphenyl Ethers (PBDEs)		—	1000	ND
Dibutyl Phthalate (DBP)	(5)	50	1000	ND
Benzylbutyl Phthalate (BBP)		50	1000	ND
Bis-(2-ethylhexyl) Phthalate (DEHP)		50	1000	ND
Diisobutyl phthalate (DIBP)		50	1000	ND

### Note:

- (1) 1 mg/kg=1 ppm=0.0001%
- (2) MDL=Method Detection Limit
- (3) ND=Not Detected (<MDL)
- (4) "—" =Not Regulated
- (5) Polybrominated diphenyl ethers
- (6) Polybrominated Biphenyls,Polybrominated Diphenyl Ethers list,and detection limit (MDL)

Polybrominated Biphenyls (PBBs)	MDL	Polybrominated Diphenyl Ethers (PBDEs)	MDL
Bromobiphenyl	5	Bromobiphenyl ether	5
Dibromobiphenyl	5	Dibromobiphenyl ether	5
Tribromobiphenyl	5	Tribromobiphenyl ether	5
Tetrabromobiphenyl	5	Tetrabromodiphenyl ether	5
Pentabromobiphenyl	5	Pentabromodiphenyl ether	5
Hexabromobiphenyl	5	Hexabromodiphenyl ether	5
Heptabromobiphenyl	5	Heptabromodiphenyl ether	5
Octabromobiphenyl	5	Octabromobiphenyl ether	5
Nonabromobiphenyl	5	Nonabromobiphenyl ether	5
Marabromodiphenyl	5	Marabromobiphenyl ether	5

(7) IEC 62321-8:2017 is not within the scope of CMA certification, DIBP is not within the scope of CNAS and CMA certification





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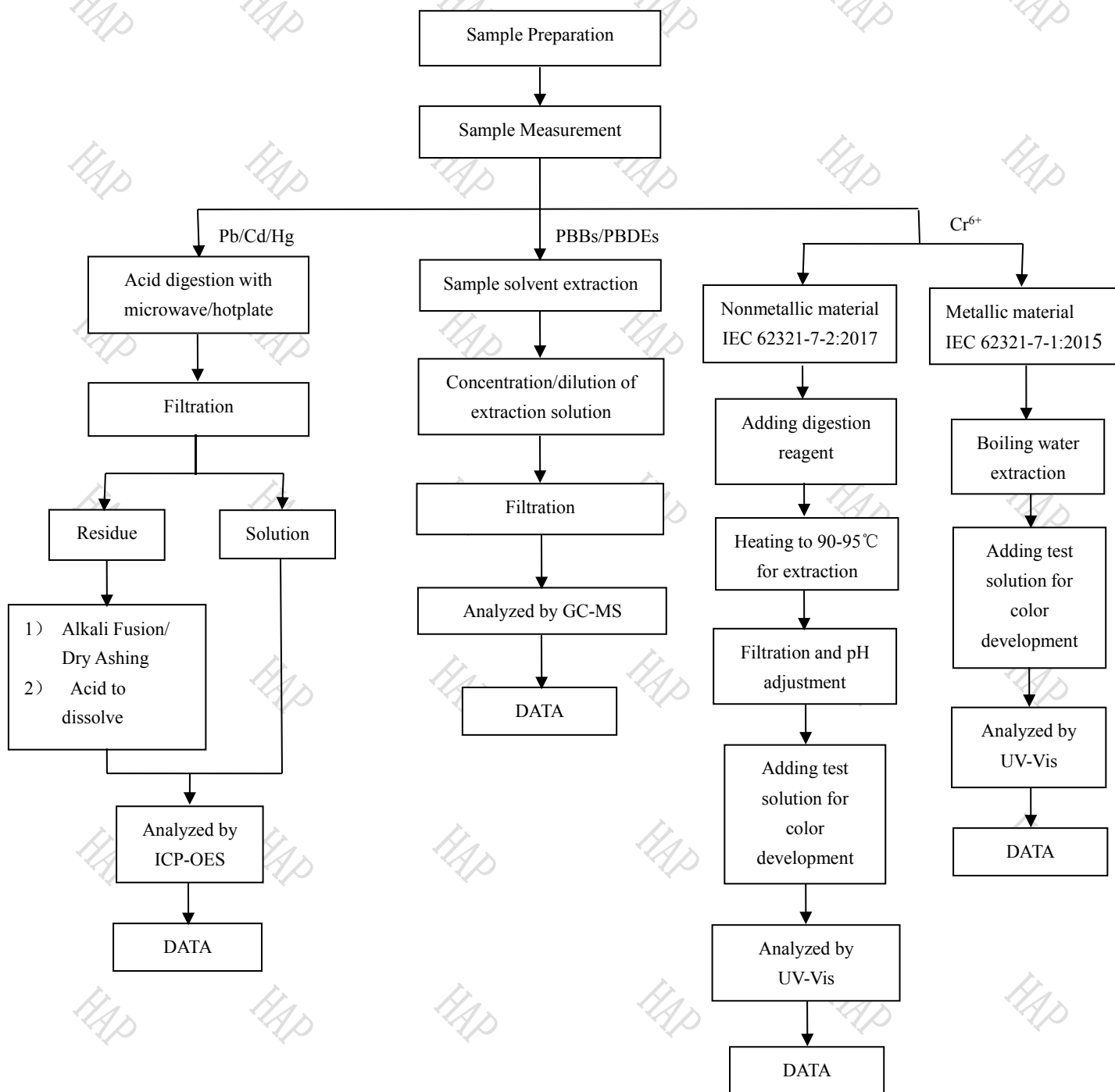
中国认可  
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TESTING  
CNAS L6760

# Test Report

Report No HAP18122316503R1

Page: 3 of 4

## RoHS Testing Flow Chart





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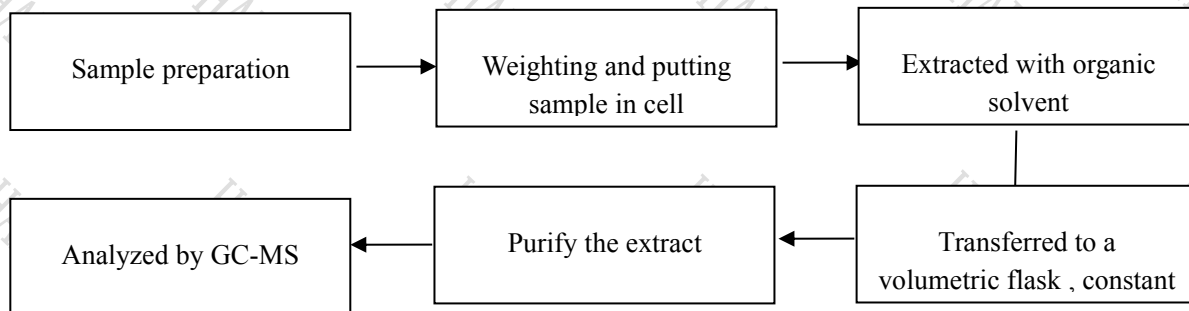
中国认可  
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CNAS L6760

# Test Report

Report No HAP18122316503R1

Page: 4 of 4

## Phthalate Testing Flow Chart:



Sample photo:



\*\*\*End of report\*\*\*

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