



171020340088



中国认可
国际互认
检测
TESTING
CNAS L6760

Test Report

Report No HAP18122316508R1

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 PolyFlex™ TPU95

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,Cr⁶⁺, 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 (Cr⁶⁺),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://cnca.cncaic.cn)

江苏环谱检测技术服务有限公司

JIANGSU HAP TESTING SERVICE CO.,LTD

地址: 扬州市经济技术开发区吴州东路 198 号

Address:NO.198 Wuzhou East Road,economic and technological development zone,YangZhou

URL: www.hap-test.com

E-mail: hap@hap-test.com

☎: 400-6600-776 ☎: 0514-89711561



171020340088



中国认可
国际互认
检测
TESTING
CNAS L6760

Test Report

Report No HAP18122316508R1

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 ⁶⁺)	(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





171020340088



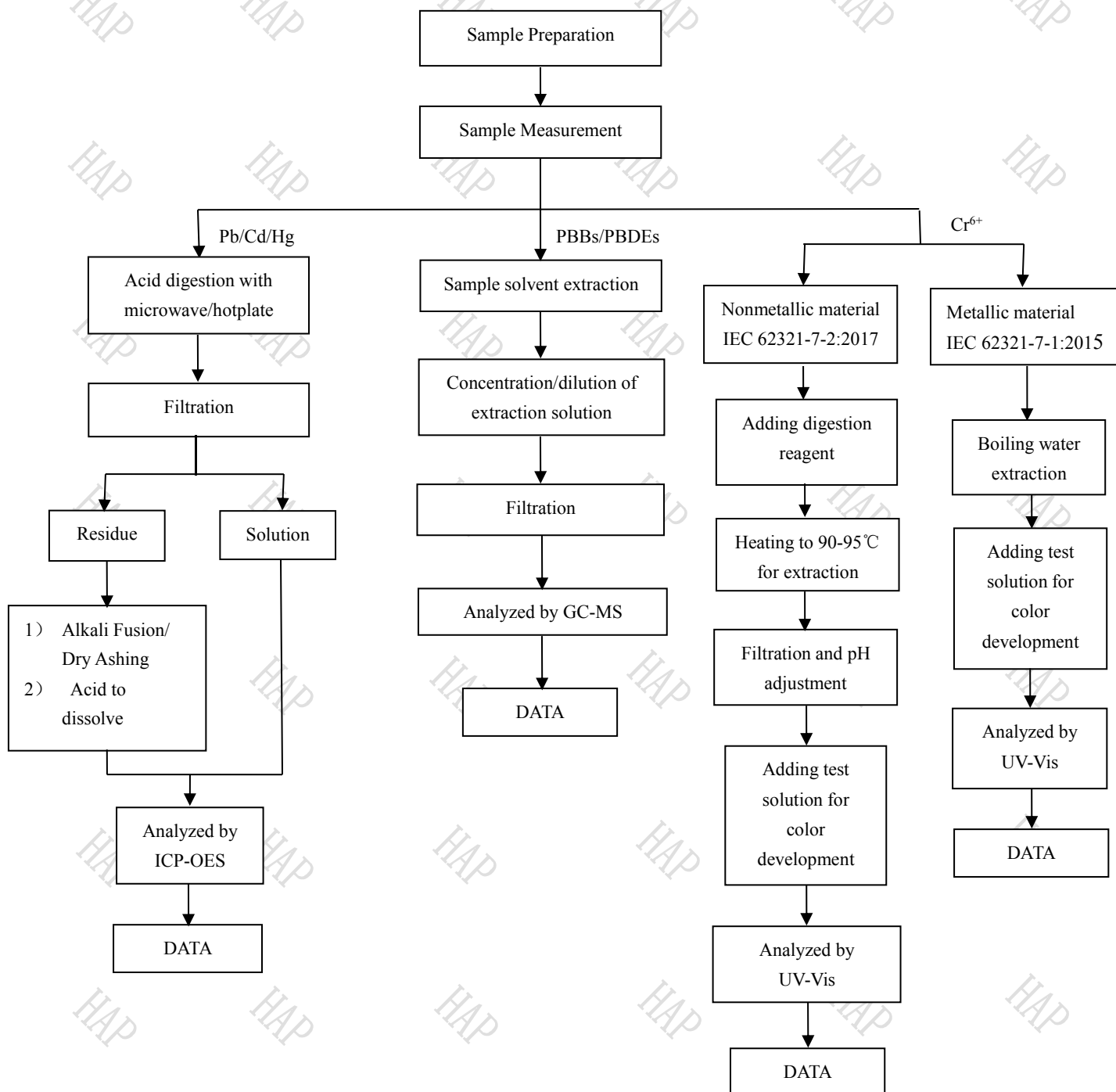
中国认可
国际互认
检测
TESTING
CNAS L6760

Test Report

Report No HAP18122316508R1

Page: 3 of 4

RoHS Testing Flow Chart





171020340088



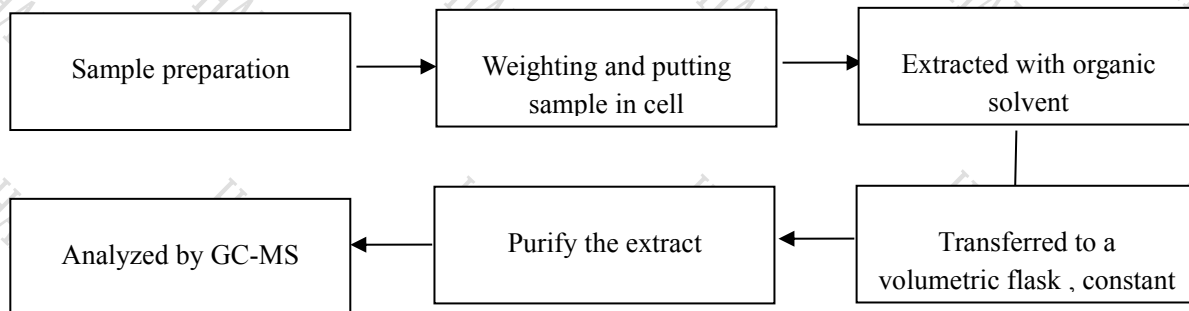
中国认可
国际互认
检测
TESTING
CNAS L6760

Test Report

Report No HAP18122316508R1

Page: 4 of 4

Phthalate Testing Flow Chart:



Sample photo:



End of report

本报告无批准人签字、报告专用章及骑缝章无效。本报告不得擅自修改、增加或删除。报告结果只对本次受检样品负责。若对检测结果有异议，请在报告签发日期后十五天内书面提出，逾期不予受理。未经 HAP 书面同意，不得部分复制本报告，亦不可作为宣传品使用。报告封面装饰作用，不在报告正文内。此报告无 CMA 标识时，检测数据仅限科研、教学、内部质量控制等活动使用。本公司出具纸质正版报告与电子数字签名版具备相同效力，当两者内容有差异时以电子数字签名版为准。

(具体通用条款详见 <http://www.hap-test.com/customerservice.html>)