



TEST REPORT

No. : SH190200072C01E

Report Date: 2019/03/01

Applicant : WUXI OTP SEALING TECHNOLOGY DEVELOPMENT CO.,LTD
Address : 630, 555#liang qing road, binhu district, wuxi

The following sample(s) was/were submitted and identified by/on behalf of the applicant as:

Sample Name : O-ring

Receiving Date : 2019/02/26


Testing Period : 2019/02/26- 2019/03/01

Test Requested : To determine the Pb,Cd, Hg,Cr(VI),PBBs&PBDEs, DBP, BBP, DEHP and DIBP content of the submitted sample.

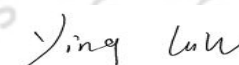
Test Method : Please refer to next page(s).

Test Results : Please refer to next page(s).

Conclusion : Based on the analysis on the submitted sample, the results **do comply with** the requirement of RoHS Directive (EU)2015/863(RoHS 2.0).

Approved by 
Sallyia Hu

Reviewed by 
Shicheng Gao

Redact by 
Ying Liu

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TEST RESULTS:

RoHS2.0

No.	Test Items	Methods	MDL (mg/kg)	Results (mg/kg)	Limited Value* (mg/kg)
1	Pb	M1	2	N.D.	1000
2	Cd		2	N.D.	100
3	Hg	M2	2	N.D.	1000
4	Cr (VI)	M3	2	N.D.	1000
5	Monobromobiphenyl (MonoBB)	M4	5	N.D.	---
	Dibromobiphenyl (DiBB)		5	N.D.	---
	Tribromobiphenyl (TriBB)		5	N.D.	---
	Tetrabromobiphenyl (TetraBB)		5	N.D.	---
	Pentabromobiphenyl (PentaBB)		5	N.D.	---
	Hexabromobiphenyl (HexaBB)		5	N.D.	---
	Heptabromobiphenyl (HeptaBB)		5	N.D.	---
	Octabromobiphenyl (OctaBB)		5	N.D.	---
	Nonabromobiphenyl (NonaBB)		5	N.D.	---
	Decabromobiphenyl (DecaBB)		5	N.D.	---
	Total PBBs / sum of above		---	N.D.	1000
6	Monobromodiphenyl ether (MonoBDE)	M4	5	N.D.	---
	Dibromodiphenyl ether (DiBDE)		5	N.D.	---
	Tribromodiphenyl ether (TriBDE)		5	N.D.	---
	Tetrabromodiphenyl ether (TetraBDE)		5	N.D.	---
	Pentabromodiphenyl ether (PentaBDE)		5	N.D.	---
	Hexabromodiphenyl ether (HexaBDE)		5	N.D.	---
	Heptabromodiphenyl ether (HeptaBDE)		5	N.D.	---
	Octabromodiphenyl ether (OctaBDE)		5	N.D.	---
	Nonabromodiphenyl ether (NonaBDE)		5	N.D.	---
	Decabromodiphenyl ether (DecaBDE)		5	N.D.	---
Total PBDEs / sum of above	---	N.D.	1000		
7	Dibutyl Phthalate(DBP)	M5	50	N.D.	1000
8	Benzylbutyl Phthalate(BBP)		50	N.D.	1000
9	Di-(2-ethylhexyl)Phthalate(DEHP)		50	N.D.	1000
10	Diisobutyl phthalate(DIBP)		50	N.D.	1000

Remark : *The Limited value is based on the RoHS Directive (EU)2015/863(RoHS 2.0).



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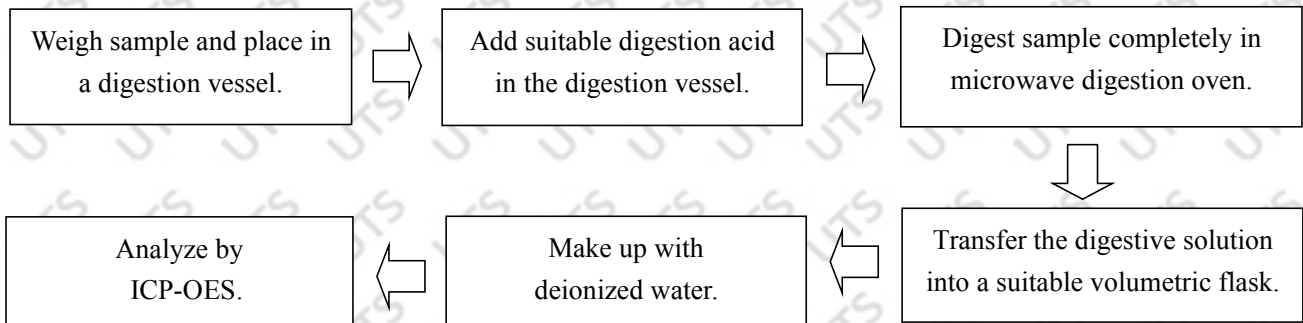
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- Note :**
- 1) “---” = Not Regulated.
 - 2) MDL = Method Detection Limit.
 - 3) N.D. = Not detected, less than MDL.
 - 4) M1: With reference to IEC 62321-5: 2013, analysis was performed by ICP-OES.
 - 5) M2: With reference to IEC 62321-4: 2013+AMD1: 2017 CSV, analysis was performed by ICP-OES.
 - 6) M3: With reference to IEC 62321-7-2: 2017, analysis was performed by UV-Vis.
 - 7) M4: With reference to IEC 62321-6: 2015, analysis was performed by GC-MS.
 - 8) M5: With reference to IEC 62321-8: 2017, analysis was performed by GC-MS.

TEST PART DESCRIPTION: O-ring

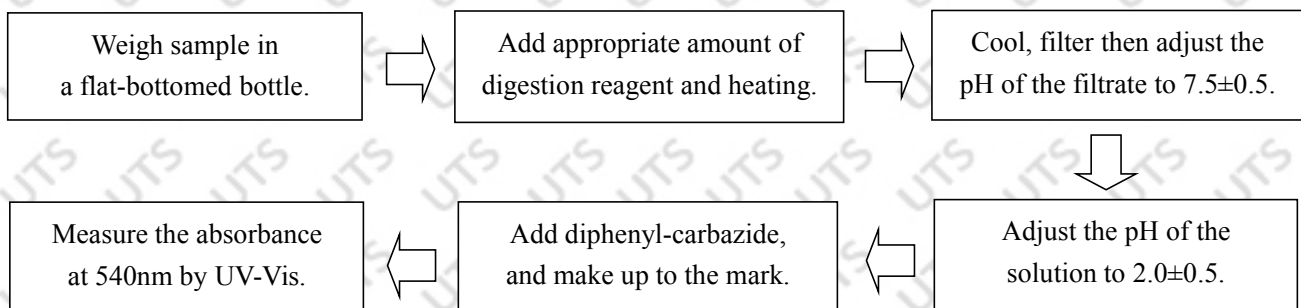
FLOW CHART

1. Test for Pb, Hg, Cd Content



Sample Material	Digestion Acid
Glass	HNO ₃ /HF
Plastic	H ₂ SO ₄ , H ₂ O ₂ , HNO ₃ , HCl
Others	Any acid to total digestion.

2. Test for Chromium(VI)Content

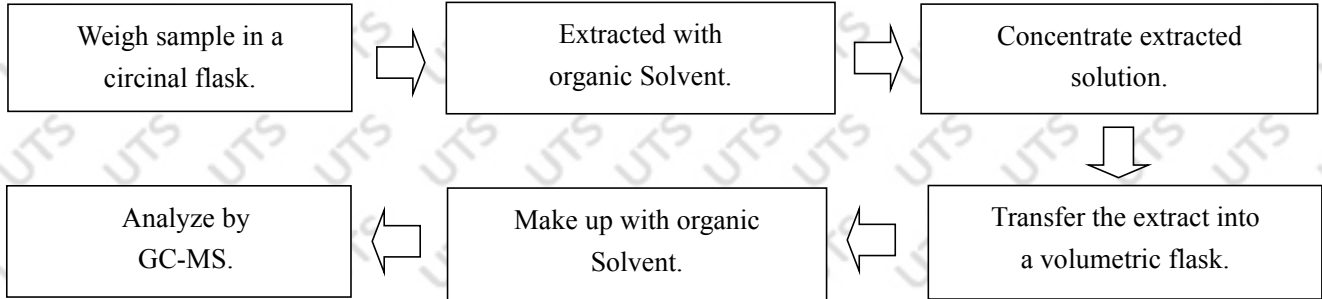


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3. Test for PBBs&PBDEs and Phthalates



SAMPLE PHOTO



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