



Test Report

Applicant : SHENZHEN AIFUKANG (ELFCAM) TECHNOLOGY CO.,LTD
SHENZHEN CHINAOPTICCABLE CO., LTD
GUANGDONG KSTCABLE CO., LTD

Address : KST Communication Optical fiber Industry research and development base,
Chenjiang Dongsheng Middle Road, Zhongkai High-tech Zone, Huizhou ,
Guangdong, China.

Manufacturer : SHENZHEN AIFUKANG (ELFCAM) TECHNOLOGY CO.,LTD
SHENZHEN CHINAOPTICCABLE CO., LTD
GUANGDONG KSTCABLE CO., LTD

Address : KST Communication Optical fiber Industry research and development base,
Chenjiang Dongsheng Middle Road, Zhongkai High-tech Zone, Huizhou ,
Guangdong, China.

Sample Name : FIBER OPTIC CABLE
Sample Model : LSZH
Sample Brand : KSTCABLE
Received Date : December 5, 2022
Testing Period : December 5, 2022 ~ December 8, 2022
Test Requested : As specified by client, with reference to RoHS Directive 2011/65/EU and
(EU) 2015/863, to determine the Lead (Pb), Cadmium (Cd), Mercury (Hg),
Hexavalent Chromium (Cr(VI)), Polybrominated biphenyls (PBBs),
Polybrominated diphenyl ethers (PBDEs), Dibutyl Phthalate (DBP),
Benzyl butyl phthalate (BBP), Bis-(2-ethyl hexyl)-phthalate (DEHP) and
Diisobutyl phthalate (DIBP) content in the submitted sample.

Test Method : Please refer to next page.
Test Results : Please refer to next page(s).
Conclusion : Based on the performed tests on the selected components of submitted
sample(s), the results Comply with the RoHS Directive 2011/65/EU and
(EU) 2015/863.

CCIC (Shenzhen) Environmental Service Co., Ltd.

Completed by:

Liu fangzi
Liu fangzi

Reviewed by:

Zhu meijuan
Zhu meijuan

Approved by:

Renyou.Yang
Renyou.Yang





Test Methods:

Chemical testing methods & Equipments

Testing Item	Testing Method	Equipment
Lead (Pb)	IEC 62321-5-2013 (Ed1.0)	ICP-OES
Cadmium (Cd)	IEC 62321-5-2013 (Ed1.0)	ICP-OES
Mercury (Hg)	IEC 62321-4-2013+A1:2017	ICP-OES
Hexavalent chromium (Cr(VI))	IEC 62321-7-2-2017 (Ed1.0)	UV-VIS
PBBs	IEC 62321-6-2015 (Ed1.0)	GC-MS
PBDEs	IEC 62321-6-2015 (Ed1.0)	GC-MS
DBP	IEC 62321-8-2017 (Ed1.0)	GC-MS
BBP	IEC 62321-8-2017 (Ed1.0)	GC-MS
DEHP	IEC 62321-8-2017 (Ed1.0)	GC-MS
DIBP	IEC 62321-8-2017 (Ed1.0)	GC-MS



1. Test Results (Unit: mg/kg):

Test Item(s)	Results	MDL
Cadmium (Cd)	ND	2
Lead (Pb)	ND	2
Mercury (Hg)	ND	2
Hexavalent Chromium (Cr(VI))	ND	8
Sum of PBBs	ND	—
Monobromo biphenyl	ND	5
Dibromo biphenyl	ND	5
Tribromo biphenyl	ND	5
Tetrabromo biphenyl	ND	5
Pentabromo biphenyl	ND	5
Hexabromo biphenyl	ND	5
Heptabromo biphenyl	ND	5
Octabromo biphenyl	ND	5
Nonabromo biphenyl	ND	5
Decabromo biphenyl	ND	5
Sum of PBDEs	ND	—
Monobromobiphenyl ether	ND	5
Dibromobiphenyl ether	ND	5
Tribromobiphenyl ether	ND	5
Tetrabromobiphenyl ether	ND	5
Pentabromobiphenyl ether	ND	5
Hexabromobiphenyl ether	ND	5
Heptabromobiphenyl ether	ND	5
Octabromobiphenyl ether	ND	5
Nonabromobiphenyl ether	ND	5
Decabromobiphenyl ether	ND	5
Dibutyl Phthalate (DBP)	ND	50
Benzyl butyl phthalate (BBP)	ND	50
Bis-(2-ethylhexyl)-Phthalate (DEHP)	ND	50
Diisobutyl Phthalate (DIBP)	ND	50

Note:

- (1) mg/kg = milligram per kilogram
- (2) ND = Not Detected (<MDL)
- (3) MDL = Method Detection Limit
- (4) “—” = Not regulated



2. Test Part Description:

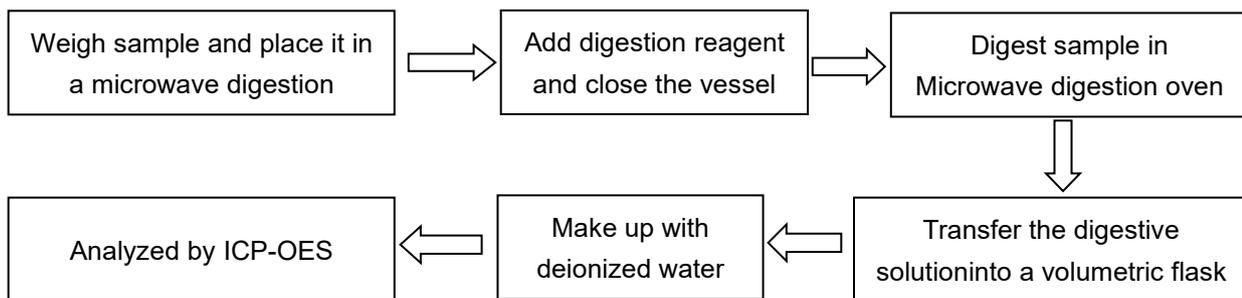
Orange plastic (wire insulation)

3. RoHS Requirement (mg/kg):

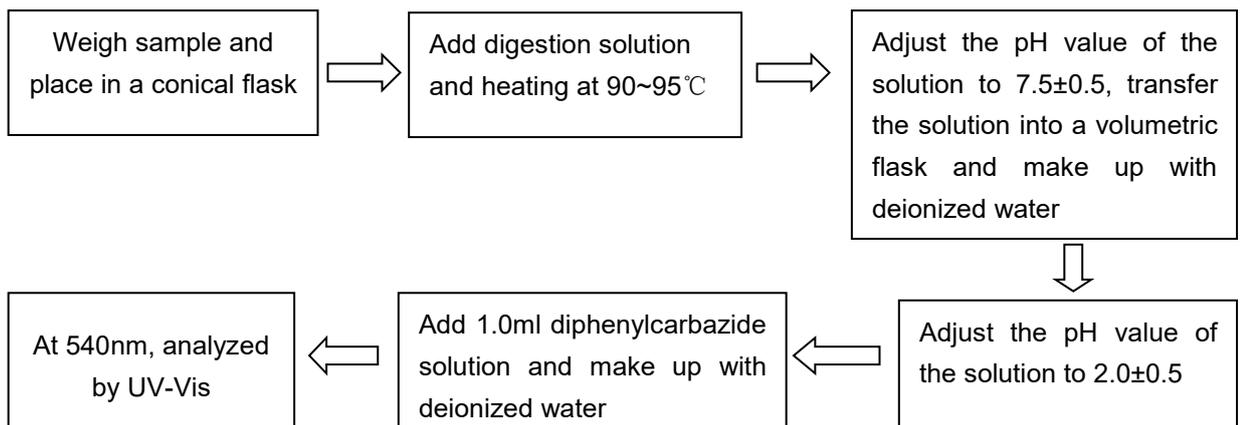
Restricted substances	Cd	Pb	Hg	Cr(VI)	PBBs	PBDEs	BBP	DBP	DEHP	DIBP
RoHS limit	100	1000	1000	1000	1000	1000	1000	1000	1000	1000

4. Chemical Test Process:

(1) Lead (Pb), Cadmium (Cd), Mercury (Hg)

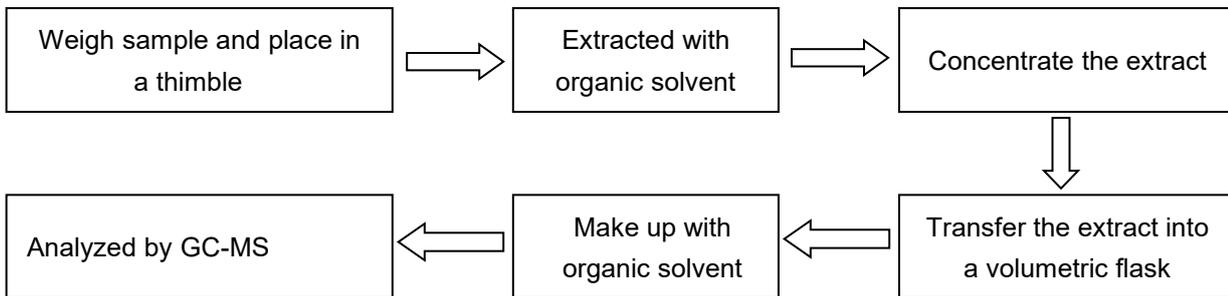


(2) Hexavalent Chromium (Cr(VI)) (Alkaline extraction)

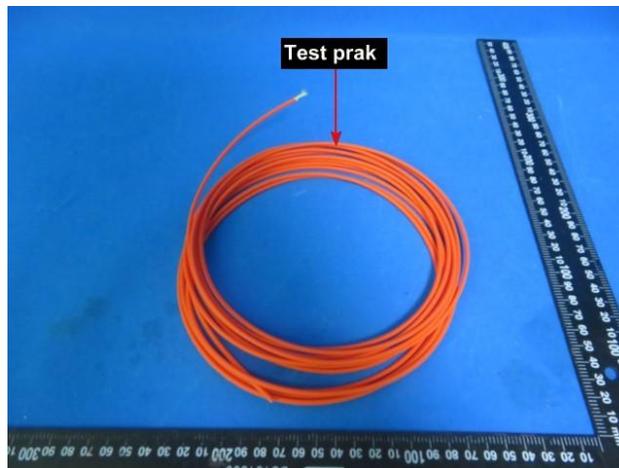




(3) PBBs /PBDEs, DEHP, BBP, DBP, DIBP



5. Appendix:



This test document cannot be reproduced in any way, except in full context, without the prior approval in writing of the laboratory.

The result of this test report is based on our received samples only.

*****End of Report*****