



TEST REPORT

Report No.: ZTS24101015URH

Date: Oct.15, 2024

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Applicant : Hebei Tuoruis Import And Export Trading Co., Ltd.
Address : 7F, Bloock B Haiyue Tiandi, Qiaoxi District, Shijiazhuang, Hebei, China

Sample Name : Rubber Seal
Trade Mark : N/A
Tested Style No. : TRS053/3A
Series models : N/A
Manufacturer's : Xingtai Dihong Sealing Parts Co., Ltd.
Address : Beiding Village, Tiankou Town, Renze District, Xingtai City, Hebei Province.
Testing Period : Oct. 10, 2024 - Oct. 15, 2024

Executive Summary

Test Request	Conclusion
RoHS Directive 2011/65/EU and its subsequent amendments & Directive (EU)2015/863 — Lead, Cadmium, Mercury, Hexavalent Chromium, PBBs and PBDEs Content — Di-(2-ethylhexyl) phthalate(DEHP), Benzylbutyl phthalate(BBP), Dibutyl phthalate (DBP), Diisobutyl phthalate(DIBP) Content	PASS

Signed for and on behalf of
Shenzhen ZTS Testing Service Co., Ltd.

Hailiang Mo

 Hailiang Mo





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Test Material List:

Material No.	Description
001	black rubber

Test Results:

Test method

Lead & Cadmium Content:

With reference to IEC 62321-5:2013, by acid digestion and analysis was performed by inductively coupled plasma atomic emission spectrometer (ICP-OES)

Mercury Content:With reference to IEC 62321-4: 2013+AMD1:2017 CSV, by acid digestion and analysis was performed by inductively coupled plasma atomic emission spectrometer (ICP-OES)

Hexavalent Chromium Content: With reference to IEC 62321-7-2:2017, by alkaline digestion and analysis was performed by UV-visible spectrophotometer (UV-Vis)

Item	Unit	MDL	Limit	Results
				001
Lead Content (Pb)	mg/kg	2	1000	N.D.
Cadmium Content (Cd)	mg/kg	2	100	N.D.
Mercury Content (Hg)	mg/kg	2	1000	N.D.
Hexavalent Chromium (Cr(VI))	mg/kg	2	1000	N.D.



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Test method

PBBs & PBDEs Content:

With reference to IEC 62321-6:2015, by solvent extraction and analysis was performed by gas chromatographic-mass spectrometer (GC-MS)

Items	Unit	MDL	Limit	Results
				001
Monobromobiphenyl	mg/kg	5	/	N.D.
Dibromobiphenyl	mg/kg	5	/	N.D.
Tribromobiphenyl	mg/kg	5	/	N.D.
Tetrabromobiphenyl	mg/kg	5	/	N.D.
Pentabromobiphenyl	mg/kg	5	/	N.D.
Hexabromobiphenyl	mg/kg	5	/	N.D.
Heptabromobiphenyl	mg/kg	5	/	N.D.
Octabromobiphenyl	mg/kg	5	/	N.D.
Nonabromodiphenyl	mg/kg	5	/	N.D.
Decabromodiphenyl	mg/kg	5	/	N.D.
Total content	mg/kg	/	1000	N.D.
Monobromodiphenyl ether	mg/kg	5	/	N.D.
Dibromodiphenyl ether	mg/kg	5	/	N.D.
Tribromodiphenyl ether	mg/kg	5	/	N.D.
Tetrabromodiphenyl ether	mg/kg	5	/	N.D.
Pentabromodiphenyl ether	mg/kg	5	/	N.D.
Hexabromodiphenyl ether	mg/kg	5	/	N.D.
Heptabromodiphenyl ether	mg/kg	5	/	N.D.
Octabromodiphenyl ether	mg/kg	5	/	N.D.
Nonabromodiphenyl ether	mg/kg	5	/	N.D.
Decabromodiphenyl ether	mg/kg	5	/	N.D.
Total content	mg/kg	/	1000	N.D.



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Test method

DBP, BBP, DEHP, DIBP Content

With reference to IEC 62321-8:2017, by solvent extraction and analysis was performed by gas chromatographic-mass spectrometer (GC-MS)

Items	CAS No.	Unit	MDL	Results	Limit
				001	
Dibuyil Phthalate(DBP)	84-74-2	mg/kg	20	N.D.	1000
Benzylbutyl Phthalate(BBP)	85-68-7	mg/kg	20	N.D.	1000
Bis(2-ethylhexyl) Phthalate(DEHP)	117-81-7	mg/kg	20	N.D.	1000
Diisopbutyl phthalate(DIBP)	84-69-5	mg/kg	20	N.D.	1000

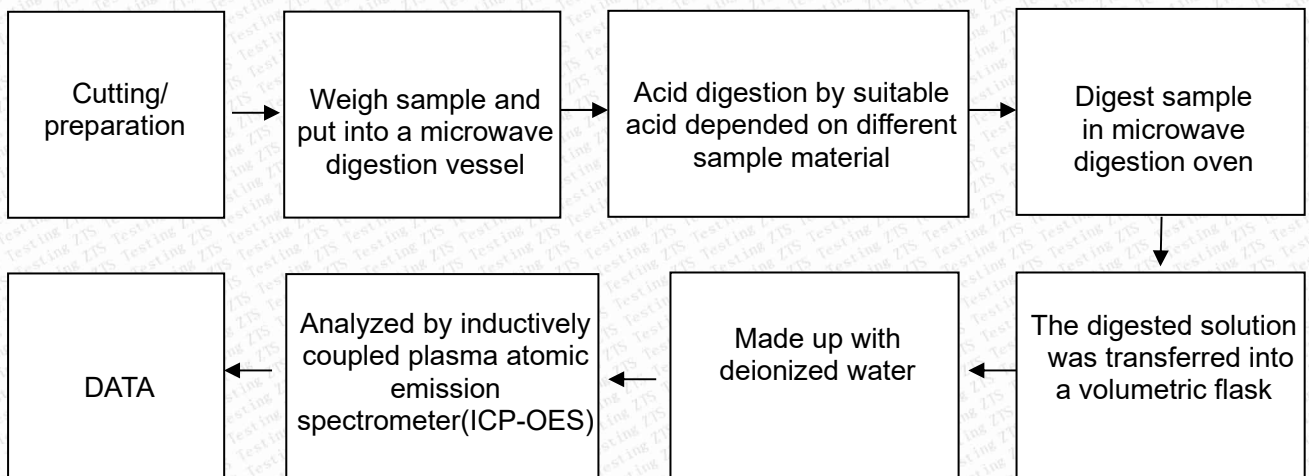
Note:

- N.D. = Not Detected or less than MDL
- MDL = Method Detection Limit
- 0.1mg/kg=1000mg/kg
- Flow chart is included.
- Photo appendix is included.

Test Flow: These samples were dissolved totally by pre-conditioning method according to below flow chart.

1. Test Flowchart for Pb / Cd /Hg contents

These samples were dissolved totally by pre-conditioning method according to below flow chart.





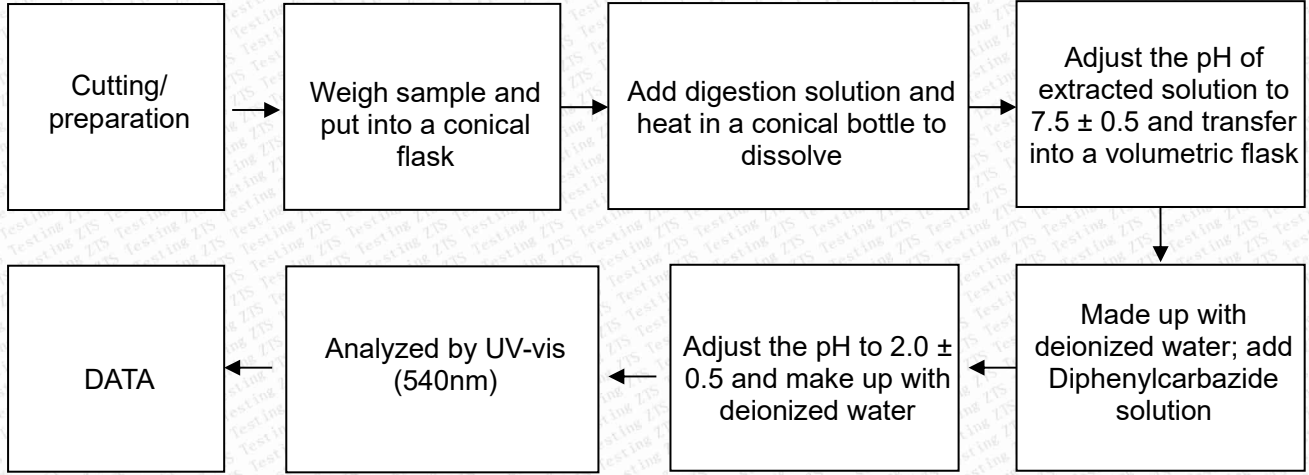
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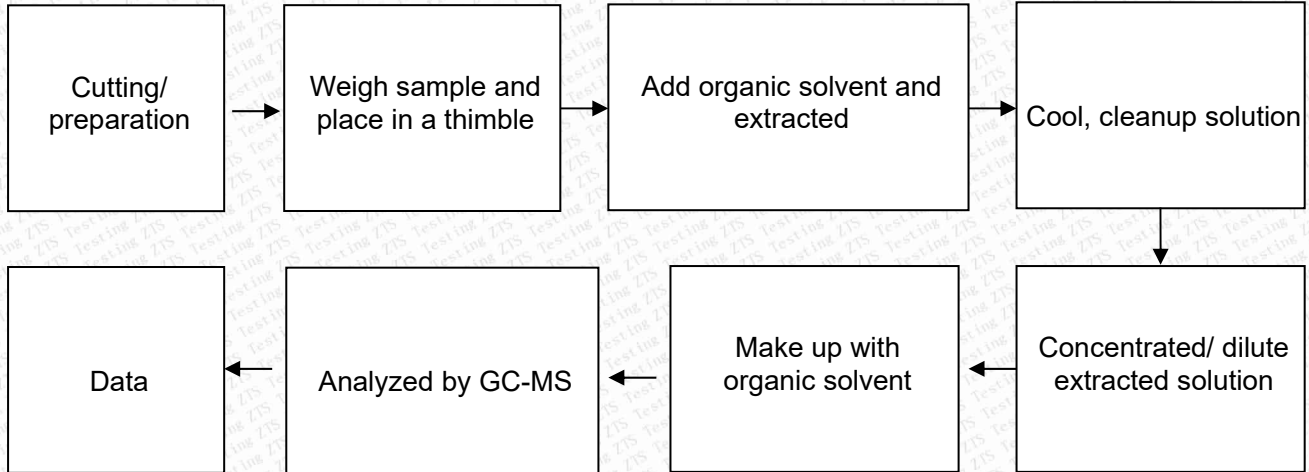
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2. Test Flowchart for Cr⁶⁺ content (For non-metallic material)



3. Test Flow chart for PBBs & PBDEs, DBP, BBP, DEHP, DIBP content



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The photo of the sample

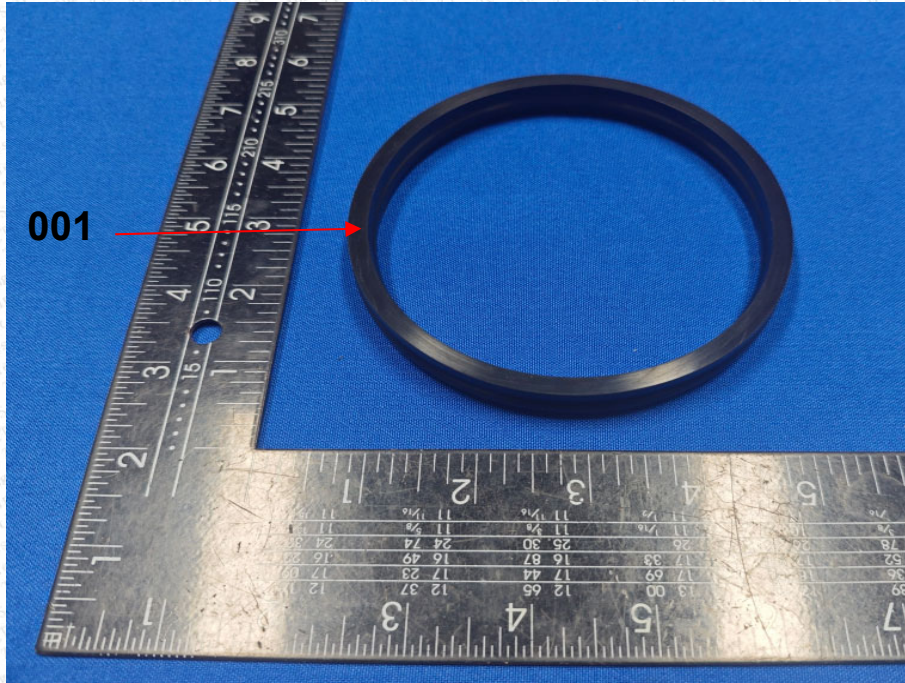


Photo1

Statement:

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2. The result(s) shown in this report refer only to the sample(s) tested.
3. Without written approval of ZTS, this report can't be reproduced except in full.
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*** End of Report ***