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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	ELING TE LESTING TE LES
(EU)2015/863 — Lead, Cadmium, Mercury, Hexavalent Chromium, PBBs and PBDEs Content	PASS
— Di-(2-ethylhexyl) phthalate(DEHP), Benzylbutyl phthalate(BBP),	The Lear The The Lear Thing I
Dibutyl phthalate (DBP), Diisobutyl phthalate(DIBP) Content	UN TE LESTING TE LESTING

Signed for and on behalf of

Shenzhen ZTS Testing Service

Hailiang Mo

Hailiang Mo



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#### **Test Material List:**

Material No.	Description	The leading the
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)

La Lez lug Miz Lez lug Miz Lez lug Miz R Miz Lez lug Miz Lez lug Miz Lez lug Miz Jiz Lez lug Miz Lez lug Miz Lez lug Miz	Unit	MDL		Results
tem				001
Lead Content (Pb)	mg/kg	2	1000	N.D.
Cadmium Content (Cd)	mg/kg	Testing 775 Testing	100	N.D.
Mercury Content (Hg)	mg/kg	15 Test 1 1 15 Test 1 15 T	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)

The resting 1/2 lesting 1/2 lesting 1/2 lest	Unit	The Tip Legions Tip	Leading Liz Leading	Results	
Items 1100 125 700 100 175 700 100 175 700 100 175 700 100 175 700 100 175 700 100 175 700 100 175 700 100 175	arting the re-	seine The reseine	Limit	001	
	00 -42 -08 -03 -42 -08 -41	3	The arch age sine arch	KP3 5000 H V K K S	
Monobromobiphenyl	mg/kg	15 1est 15 15 1est	INB 175 TO STING 175	N.D.	
Dibromobiphenyl	mg/kg	175 Te 5 118 175 Te	Esting 172 Lesting 1	N.D.	
Tribromobiphenyl	mg/kg	sting The Perting The	Laging Siz Legin	N.D.	
Tetrabromobiphenyl	mg/kg	Lear Tun 12 Lear Tun	The Learning The Lea	N.D.	
Pentabromobiphenyl	mg/kg	7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	TO THE LESS THE TIES	N.D.	
Hexabromobiphenyl	mg/kg	1 1/2 15 2 5 1/4 1/2 15	erium ILS (cerium I.	N.D.	
Heptabromobiphenyl	mg/kg	12 12 12 12 12 12 12 12 12 12 12 12 12 1	Legitur 12 Legitur	N.D.	
Octabromobiphenyl	mg/kg	5 testing 15 testing	12 Legitus 12 Legi	N.D.	
Nonabromodipheny	mg/kg	1 ( S ) 1 ( S ) 1 ( S ) 1 ( S ) 1 ( S ) 1 ( S )	12 12 12 10 115 10 115 10	N.D.	
Decabromodiphenyl	mg/kg	12 1621 2 12 12 162	112 12 12 12 14 14 15 15 15 15 15 15 15 15 15 15 15 15 15	N.D.	
Total content	mg/kg	THE	1000	N.D.	
Monobromodiphenyl ether	mg/kg	Test 110 5 7 2 110	12 15 15 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	N.D.	
Dibromodiphenyl ether	mg/kg	15 Test 15 115 Test	12 12 18 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	N.D.	
Tribromodiphenyl ether	mg/kg 5		esting 175 testing l	N.D.	
Tetrabromodiphenyl ether	mg/kg	scine 175 5 stine 17	12 Lest 148 12 Lest.	N.D.	
Pentabromodiphenyl ether	mg/kg	Legeling 12 Legeling	1/2 Lest 1/2 Les	N.D.	
Hexabromodiphenyl ether	mg/kg	1 Test 1 1 1 Test	14 1/2 Les 14 1/2	N.D.	
Heptabromodiphenyl ether	mg/kg	1 1 1 1 5 5 TO 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Sting 175 Testing 1	N.D.	
Octabromodiphenyl ether	mg/kg	10 5 1 10 15	1621 14 1 12 1621 14	N.D.	
Nonabromodiphenyl ether	mg/kg	25 1 148 1 2 15 15 14 14 14 14 14 14 14 14 14 14 14 14 14	12 Legille 12 Leg	N.D.	
Decabromodiphenyl ether	mg/kg	Testins 5 15 Testin	12 16 10 10 12 12 14 14 12 14 12 14 12 14 12 14 12 14 12 14 12 14 12 14 12 14 12 14 14 12 14 14 14 14 14 14 14 14 14 14 14 14 14	N.D.	
Total content	mg/kg	12 Leggl 18 12 Leg	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)

	CAS No.	Unit	MDL	Results 001	Limit
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
Diispbutyl phthalate(DIBP)	84-69-5	mg/kg	20	N.D.	1000

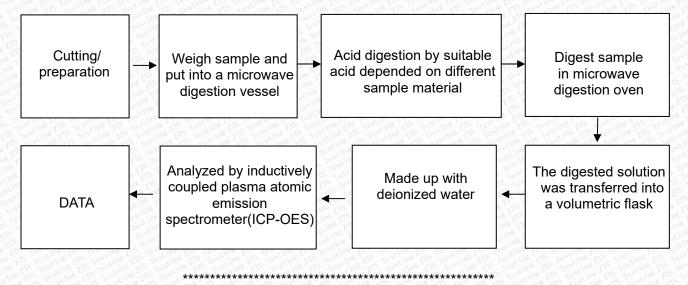
#### Note:

- 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

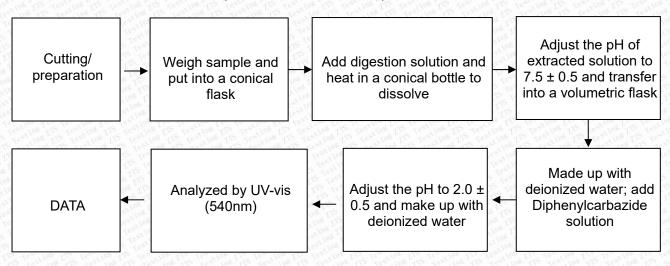
These samples were dissolved totally by pre-conditioning method according to below flow chart.



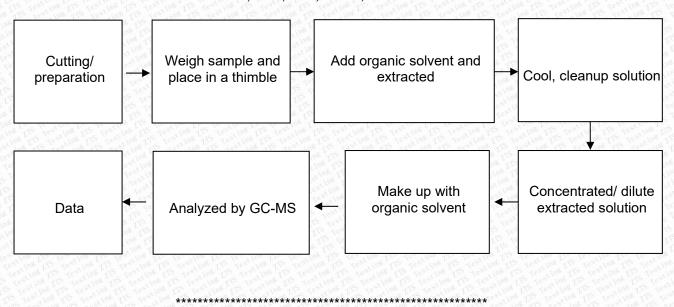


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2. Test Flowchart for Cr6+ content (For non-metallic material)



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





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### The photo of the sample

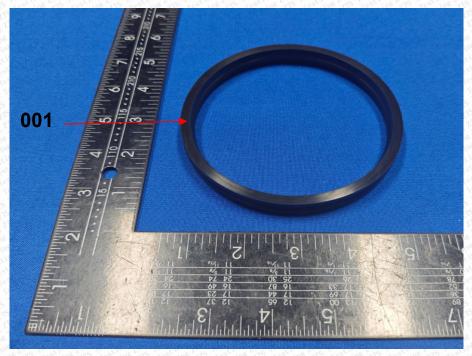


Photo1

### Statement:

- 1. The test report is considered invalidated without approval signature, special seal on the perforation.
- 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.
- 4. The sample(s) and sample information was/were provided by the client who should be responsible for the authenticity which ZTS hasn't verified.
- 5. In case of any discrepancy between the English version and Chinese version of the testing reports (if generated), the Chinese version shall prevail.

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