

<u>Test Report</u>	Report No.:	250102176GZU-001	Date: Jan 22, 2025

Applicant: CIXI PNEUFLEX PNEUMATIC COMPONENTS CO., LTD.

No. 88, Yu Gong Road, Zonghan Street, Cixi, China

Sample Description:

The following submitted sample(s) said to be:

Item Name	:	TUBE FITTINGS AND VALVES
Model No.	:	PXF06-02,PV08,PM06,PLF08-G02,PHD10-G02,PE10,PC08-G02,PA08,JSC08-G02
Date of Sample Received	:	Jan 06, 2025
Testing Period	:	Jan 06, 2025 to Jan 10, 2025

Tests conducted:

As requested by the applicant, refer to following page(s) for details.

Conclusion:

Tested Sample	Standard	Result
Tested components of submitted sample	Restriction of the use of certain hazardous substance in electrical and electronic equipment (RoHS Directive 2011/65/EU and (EU) 2015/863)	See test conducted

Intertek Testing Services Shenzhen Ltd. Guangzhou Branch: Prepared by:

Zel lang



Zel Tang Engineer Reviewed by:

Michael Asst. Technical Supervisor





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Tests conducted:

RoHS Chemical Test

(A)Test Result Summary:

Test Item	Result (mg/kg)	
lest tieff	(1/2/3)	
Cadmium (Cd) Content	23	
Lead (Pb) Content	ND	
Mercury (Hg) Content	ND	
Chromium (VI)(Cr ⁶⁺) Content	ND	
Sum of Polybrominated Biphenyls (PBBs)	ND	
Monobromobiphenyl (MonoBB)	ND	
Dibromobiphenyl (DiBB)	ND	
Tribromobiphenyl (TriBB)	ND	
Tetrabromobiphenyl (TetraBB)	ND	
Pentabromobiphenyl (PentaBB)	ND	
Hexabromobiphenyl (HexaBB)	ND	
Heptabromobiphenyl (HeptaBB)	ND	
Octabromobiphenyl (OctaBB)	ND	
Nonabromobiphenyl (NonaBB)	ND	
Decabromobiphenyl (DecaBB)	ND	
Sum of Polybrominated Diphenyl Ethers (PBDEs)	ND	
Monobromodiphenyl Ether (MonoBDE)	ND	
Dibromodiphenyl Ether (DiBDE)	ND	
Tribromodiphenyl Ether (TriBDE)	ND	
Tetrabromodiphenyl Ether (TetraBDE)	ND	
Pentabromodiphenyl Ether (PentaBDE)	ND	
Hexabromodiphenyl Ether (HexaBDE)	ND	
Heptabromodiphenyl Ether (HeptaBDE)	ND	
Octabromodiphenyl Ether (OctaBDE)	ND	
Nonabromodiphenyl Ether (NonaBDE)	ND	
Decabromodiphenyl Ether (DecaBDE)	ND	
Phthalates		
Bis(2-ethylhexyl) phthalate (DEHP)	ND	
Butyl benzyl phthalate (BBP)	ND	
Dibutyl phthalate (DBP)	ND	
Diisobutyl phthalate (DIBP)	ND	



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Test Item	Result	
lest tielli	(4)	
Cadmium (Cd) Content (mg/kg)	ND	
Lead (Pb) Content (mg/kg)	ND	
Mercury (Hg) Content (mg/kg)	ND	
Chromium (VI)(Cr ⁶⁺) Result (By Boiling Water Extraction on Metal) (μg/cm ²)	Negative	

Tested sample:

(1) Black plastic (three way pipe)

(2) Blue plastic (bushing)

(3) Grey plastic

(4) Silver color metal

ND = Not detected mg/kg= milligram per kilogram

Negative = The Cr (VI) concentration is less than 0.10 μ g/cm². The sample is negative for Cr (VI).





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(B) RoHS Requirement:

Restricted Substances	Limits
Cadmium (Cd)	0.01% (100 mg/kg)
Lead (Pb)	0.1% (1000 mg/kg)
Mercury (Hg)	0.1% (1000 mg/kg)
Chromium (VI) (Cr ⁶⁺)	0.1% (1000 mg/kg)
Polybrominated Biphenyls (PBBs)	0.1% (1000 mg/kg)
Polybrominated Diphenyl Ethers (PBDEs)	0.1% (1000 mg/kg)
Phthalates (DEHP, BBP, DBP, DIBP)	0.1% (1000 mg/kg)

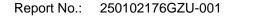
The above limits were quoted from 2011/65/EU and (EU) 2015/863 for homogeneous material.

(C) Test Method:

Test Item	Test Method	Detection Limit
Cadmium (Cd) Content	With reference to IEC 62321-5 Edition 1.0:2013, by acid digestion and determined by ICP - OES or Atomic Absorption Spectrometry	2 mg/kg
Lead (Pb) Content	With reference to IEC 62321-5 Edition 1.0:2013, by acid digestion and determined by ICP - OES or Atomic Absorption Spectrometry	2 mg/kg
Mercury (Hg) Content	With reference to IEC 62321-4:2013+AMD1:2017 CSV, by acid digestion and determined by ICP - OES	2 mg/kg
Chromium (VI)(Cr ⁶⁺) Content	With reference to IEC 62321-7-2 Edition 1.0:2017, Hexavalent chromium – Determination of hexavalent chromium (Cr (VI) in polymers and electronics by the colorimetric method	10 mg/kg
Chromium (VI)(Cr ⁶⁺) Content	With reference to IEC 62321-7-1 edition 1.0:2015, by boiling water extraction and determined by UV-VIS spectrophotometer	0.10 µg/cm²
Polybrominated Biphenyls (PBBs)& Polybrominated Diphenyl Ethers (PBDEs) Content	With reference to IEC 62321-6 Edition 1.0:2015, by solvent extraction and determined by GC/MS and further HPLC confirmation when necessary	5 mg/kg
Phthalates (DEHP, BBP, DBP, DIBP) Content	With reference to IEC 62321-8 Edition 1.0:2017, by solvent extraction and determined by GC/MS	100mg/kg

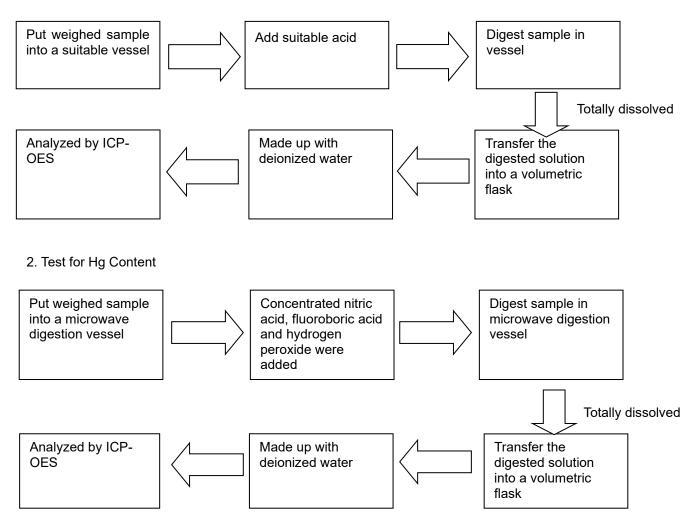






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- (D) Measurement Flowchart:
 - 1. Test for Cd/Pb Contents

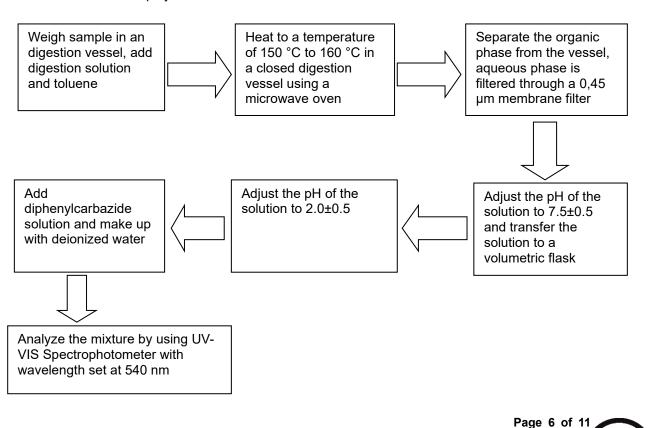




Report No.: 250102176GZU-001 Date: Jan 22, 2025 3. Test for Chromium (VI) (Cr6+) Content Soluble polymers: Weigh sample in an Add digestion Dissolve each digestion vessel, polymer sample by solution and add NMP Ultrasonicate the ultrasonication at solution at 60 °C for 60 °C 1 h Add diphenylcarbazide Adjust the pH of the Adjust the pH of the solution and make up solution to 2.0±0.5 solution to 7.5±0.5 with deionized water and transfer the solution to a volumetric flask

Analyze the mixture by using UV-VIS Spectrophotometer with wavelength set at 540 nm

Insoluble/unknown polymers and electronics without Sb:



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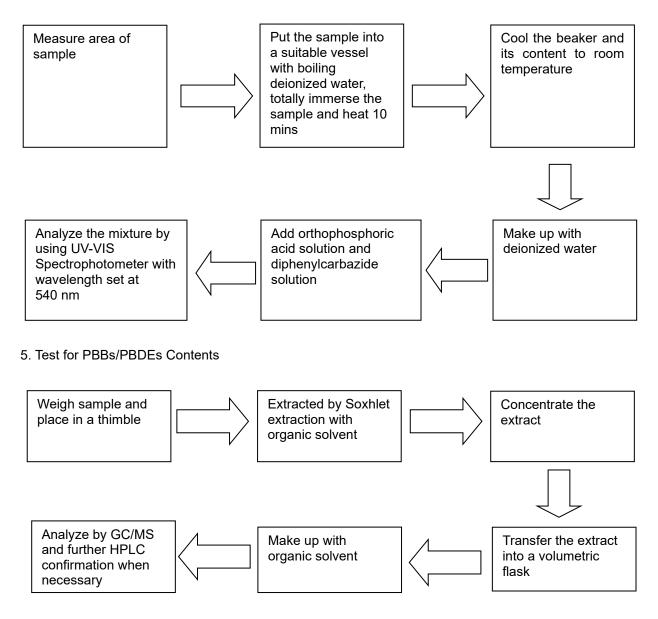
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4. Test for Chromium (VI) (Cr⁶⁺) Content (Boiling Water Extraction)



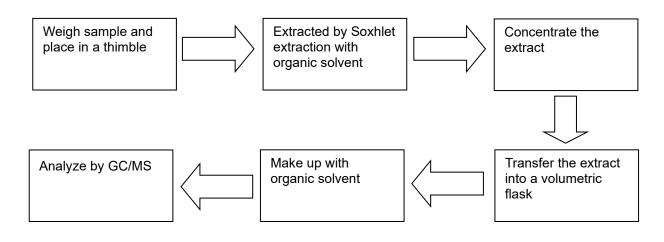




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6. Test for Phthalate Contents

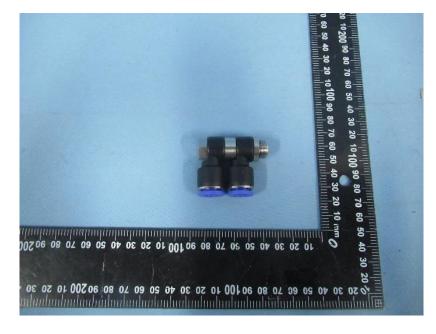






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Sample photo



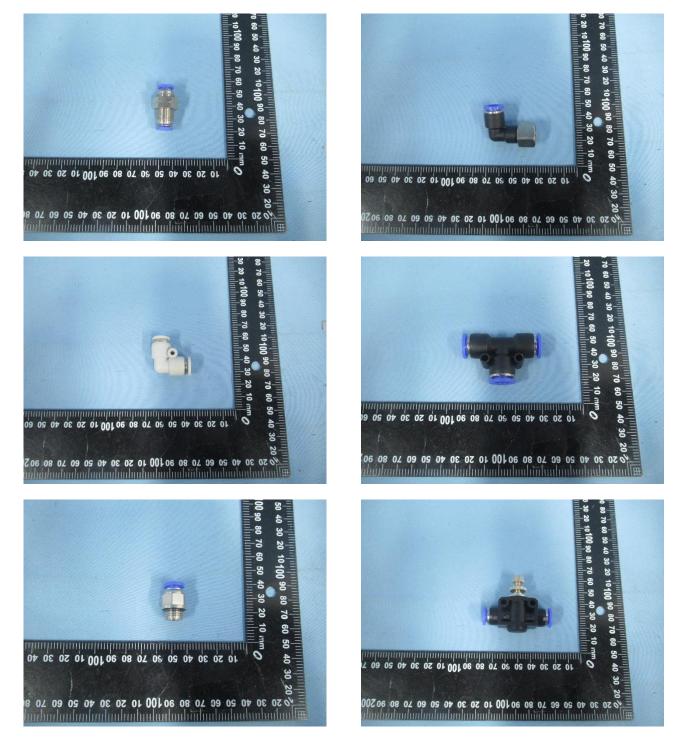




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Reference photo

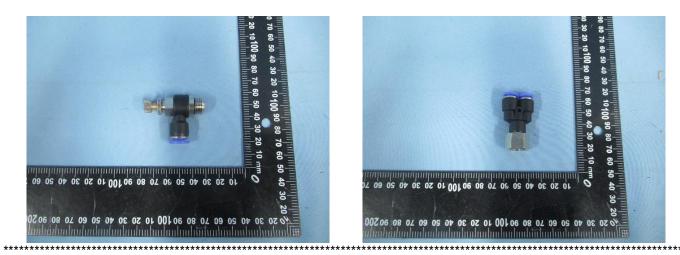






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End of report

