

Test Report No.T52210272598TC Date: JAN 11, 2024 Page 1 of 8

DONGGUAN HONGXIN INTELLIGENT TECHNOLOGY CO., LTD. NO.497.NORTH OF TANGXIA ROAD, TANGXIATOWN, DONGGUAN CITY, GUANGDONG PROVINCE, CHINA

The following samples were submitted and identified by/on behalf of the client as:

PAPER ROPE

Item No. : WHITE

Sample Receiving Date : JAN 02, 2024

Testing Period : JAN 02, 2024 TO JAN 11, 2024





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Test	Conclusion	
1.	Article 11 of European Directive 94/62/EC and its amendments – Total Lead, Cadmium, Mercury and Hexavalent Chromium content	PASS
2.	European RoHS Directive 2015/863/EU amending Annex II to Directive 2011/65/EU – Certain hazardous substances	
	Lead, Mercury, Cadmium, Hexavalent chromium, Polybrominated biphenyls (PBB), Polybrominated diphenyl ethers (PBDE) Content analysis by wet chemical	PASS
	Phthalate Content	PASS
3.	US Model Toxics in Packaging Legislation (TPCH: Toxics in Packaging Clearing House) (formerly drafted by CONEG) – Total Lead, Cadmium, Mercury and Hexavalent Chromium content	PASS

******* FOR FURTHER DETAILS, PLEASE REFER TO THE FOLLOWING PAGE(S) *******

Signed for and on behalf of SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch Testing Center

Qu Ping, Kiky

Dept. Manager





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Results:

<u>Article 11 of European Directive 94/62/EC and its amendments – Total Lead, Cadmium, Mercury and Hexavalent Chromium Content</u>

Method: With reference to IEC 62321-4:2013+AMD1:2017, IEC 62321-5:2013, IEC 62321-7-2:2017, IEC62321-7-1:2015

Analysis was performed by Inductively Coupled Plasma Optical Emission Spectrometer (ICP-OES) / Ultraviolet Visible Spectrophotometer (UV-Vis)

Test Item(s)		Pb	Cd	Hg	Cr(VI)	Total (Pb + Cd + Cr(VI)+ Hg)	
MDL (mg/kg)			5	5	5	8	
Permissible	Permissible Limit (mg/kg)						100
Specimen No.	Alias No.	Tracing No.					
1	1	1	ND	ND	ND	ND#	ND

Specimen Description:

1. Dull white paper rope

Note:

- mg/kg = milligram per kilogram
- 1% = 10000 mg/kg = 10000 ppm
- MDL = Method Detection Limit
- ND = Not Detected (lower than MDL)
- Results shown as ND are ignored in the sum calculation
- # = The result of Hexavalent chromium (Cr(VI)) is considered as "Not Detected" since the total chromium content determined by acid digestion is "Not Detected".





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EU Directive 2015/863/EU amending Annex II to Directive 2011/65/EU (RoHS, Previously 2002/95/EC) - Wet Chemical

Method: With reference to IEC62321-5:2013 / IEC 62321-4:2013+AMD1:2017 / IEC 62321-7-2:2017 / IEC62321-7-1:2015 / ISO 17075: 2017 / IEC62321-6:2015

Analysis was performed by Inductively Coupled Plasma Optical Emission Spectrometer (ICP-OES) / Atomic Absorption Spectrometer (AAS) / Ultraviolet Visible Spectrophotometer (UV-Vis) / Gas Chromatography Mass Spectrometer (GC-MS)

Test Item(s)	Unit	Result	MDL	Permissible
restricin(s)	J Olin	1	IVIDE	Limit
Lead (Pb)	mg/kg	ND	2	1000
Cadmium (Cd)	mg/kg	ND	2	100
Mercury (Hg)	mg/kg	ND	2	1000
Comment		PASS		

Specimen Description:

1. Dull white paper rope

Test Item(s)	Unit	Result	MDL	Permissible	
rest item(s)	Oilit	1	IVIDE	Limit	
Hexavalent Chromium (CrVI) by alkaline extraction	mg/kg	ND	8	1000	
Comment		PASS			

Specimen Description:

1. Dull white paper rope



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T = 4 (4 = == 4 =)	1114	Result	MDL	Permissible	
Test Item(s)	Unit	Unit 1		Limit	
Sum of PBBs mg		ND		1000	
Monobromobiphenyl	mg/kg	ND	5		
Dibromobiphenyl	mg/kg	ND	5		
Tribromobiphenyl	mg/kg	ND	5		
Tetrabromobiphenyl	mg/kg	ND	5		
Pentabromobiphenyl	mg/kg	ND	5		
Hexabromobiphenyl	mg/kg	ND	5		
Heptabromobiphenyl	mg/kg	ND	5		
Octabromobiphenyl	mg/kg	ND	5		
Nonabromobiphenyl	mg/kg	ND	5		
Decabromobiphenyl	mg/kg	ND	5		
Sum of PBDEs	mg/kg	ND		1000	
Monobromodiphenyl ether	mg/kg	ND	5		
Dibromodiphenyl ether	mg/kg	ND	5		
Tribromodiphenyl ether	mg/kg	ND	5		
Tetrabromodiphenyl ether	mg/kg	ND	5		
Pentabromodiphenyl ether	mg/kg	ND	5		
Hexabromodiphenyl ether	mg/kg	ND	5		
Heptabromodiphenyl ether	mg/kg	ND	5		
Octabromodiphenyl ether mg/kg		ND	5		
Nonabromodiphenyl ether mg/kg		ND	5		
Decabromodiphenyl ether	mg/kg	ND	5		
Comment		PASS			

Specimen Description:

- 1. Dull white paper rope
- Note: mg/kg = milligram per kilogram
 - MDL = Method Detection Limit
 - ND = Not Detected (lower than MDL)
 - The maximum permissible limit is quoted from the EU Directive 2015/863/EU amending Annex II to Directive 2011/65/EU.
 - The result of Hexavalent chromium (Cr(VI)) is deemed to be "ND" since the result of total chromium content is "ND", so the testing of Hexavalent chromium (Cr(VI)) is not requirement.
 - If the Chromium (Cr) content is greater than the MDL, And confirmation test of Hexavalent Chromium (Cr(VI)) is required.



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<u>EU Directive 2015/863/EU amending Annex II to Directive 2011/65/EU (RoHS, Previously 2002/95/EC) -</u> Phthalates Content

Method: With reference to IEC 62321-8:2017

Analysis was performed by Gas Chromatography Mass Spectrometer (GC-MS)

Test Item(s)	CAS No.	Unit	Result(s)	MDL	Permissible Limit
Specimen No.			1	IVIDL	
Dibutyl Phthalate (DBP)	84-74-2	mg/kg	ND	50	1000
Benzylbutyl Phthalate (BBP)	85-68-7	mg/kg	ND	50	1000
Bis-(2-ethylhexyl) Phthalate (DEHP)	117-81-7	mg/kg	ND	50	1000
Diisobutyl phthalate (DIBP)	84-69-5	mg/kg	ND	50	1000

Specimen Description:

1. Dull white paper rope

Note: - mg/kg = milligram per kilogram

- ND = Not Detected (lower than MDL)

- MDL = Method Detection Limit

- 1% = 10000 mg/kg = 10000 ppm





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<u>US Model Toxics in Packaging Legislation (TPCH: Toxics in Packaging Clearing House) (formerly drafted</u> by CONEG) – Total Lead, Cadmium, Mercury and Hexavalent Chromium content

Method: With reference to IEC 62321-4:2013+AMD1:2017, IEC 62321-5:2013, IEC 62321-7-2:2017, IEC62321-7-1:2015

Analysis was performed by Inductively Coupled Plasma Optical Emission Spectrometer (ICP-OES) / Ultraviolet Visible Spectrophotometer (UV-Vis)

Test Item(s)	Test Item(s)		Pb	Cd	Hg	Cr(VI)	Total (Pb + Cd + Cr(VI)+ Hg)
MDL (mg/kg)			5	5	5	8	
Permissible	Permissible Limit (mg/kg)						100
Specimen No.	Alias No.	Tracing No.					
1	2	1	ND	ND	ND	ND#	ND

Specimen Description:

1. Dull white paper rope

Note: - mg/kg = milligram per kilogram

- 1% = 10000 mg/kg = 10000 ppm

MDL = Method Detection Limit

ND = Not Detected (lower than MDL)

- Results shown as ND are ignored in the sum calculation
- # = The result of Hexavalent chromium (Cr(VI)) is considered as "Not Detected" since the total chromium content determined by acid digestion is "Not Detected".
- The TPCH legislation has been enacted by California, Connecticut, Florida, Georgia, Illinois, Iowa, Maine, Maryland, Minnesota, Missouri, New Hampshire, New Jersey, New York, Pennsylvania, Rhode Island, Vermont, Virginia, Washington and Wisconsin.



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Remark 2: The statement of conformity has considered the decision rule based on the Guarded acceptance (8.3.2 of ISO/IEC GUIDE 98-4:2012). When the measured value falls within the guard band, only the test data and measurement uncertainty will be reported. The guard band is equal to the expanded measurement uncertainty with a 95% coverage probability(k=2), w = U₉₅. The Probability of False Accept and the Probability of False Reject of the decision rule are 2.5%.

For Upper Tolerance Limit (T_{U}) :

Pass - when the measurement result is below T_U - U_{95}

Fail - when the measurement result is above Tu+U95

Inconclusive - when the measurement result is falling in guard band [T_U-U₉₅, T_U+U₉₅]

For Lower Tolerance Limit (T_L):

Pass - when the measurement result is above TL+U95

Fail - when the measurement result is below T_L-U₉₅

Inconclusive - when the measurement result is falling in guard band [T_L-U₉₅, T_L+U₉₅]

Sample Photo:



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*** End of Report ***



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