

Test Report

Report No.: 251113032SZN-025

Issue date: Nov. 26, 2025

Applicant: **Distributed in South Africa by Reel Papers**

Sample Description:

Test item description.....: **Direct thermal**

Brand.....: **Distributed in South Africa by Reel Papers**

Date of Sample Received.....: Nov. 13, 2025

Testing Period: Nov. 14, 2025 to Nov. 21, 2025

Tests conducted:

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

Test location: 5/F of Bldg. 1, Yuanzheng Science and Technology Industrial Park, No. 4012, Wuhe Ave. North, Bantian Street, Longgang District, Shenzhen, China

Conclusion:

Tested samples	Test item	Result
Submitted sample	Restriction of the use of certain hazardous substance in electrical and electronic equipment (RoHS Directive 2011/65/EU and amendment Commission Delegated Directive (EU) 2015/863)	Pass
	Applicant's requirements on Halogen (F, Cl, Br, I) Content	Pass
	Applicant's requirements on Phthalates Content	See test conducted

Authorized by:
For Intertek Testing Services
Shenzhen Ltd.



Navy Wang
Supervisor



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◆ **1. RoHS Chemical Test:**

(A) Test Result Summary:

Testing Item	Result
Cadmium (Cd) Content (mg/kg)	ND
Lead (Pb) Content (mg/kg)	ND
Mercury (Hg) Content (mg/kg)	ND
Chromium (VI)(Cr ⁶⁺) Content (mg/kg)	ND
Polybrominated Biphenyls (PBBs)(mg/kg)	
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
Polybrominated Diphenyl Ethers (PBDEs)(mg/kg)	
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
Dibutyl phthalate (DBP) (mg/kg)	ND
Di-(2-ethyl hexyl) phthalate (DEHP) (mg/kg)	ND
Benzyl butyl phthalate (BBP) (mg/kg)	ND
Di-(iso-butyl) phthalate (DIBP) (mg/kg)	ND
– ND = Not detected.	



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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)
Dibutyl phthalate (DBP)	0.1% (1000 mg/kg)
Di-(2-ethyl hexyl) phthalate (DEHP)	0.1% (1000 mg/kg)
Benzyl butyl phthalate (BBP)	0.1% (1000 mg/kg)
Di-(iso-butyl) phthalate (DIBP)	0.1% (1000 mg/kg)
The above limits were quoted from 2011/65/EU and amendment Commission Delegated Directive (EU) 2015/863 for homogeneous material.	

(C) Test Method:

Testing Item	Testing Method	Reporting Limit
Mercury (Hg) Content	With reference to IEC 62321-4 Edition 1.0:2013 +AMD1: 2017, by acid digestion and determined by ICP - OES	2 mg/kg
Cadmium (Cd) Content	With reference to IEC 62321-5 Edition 1.0:2013, by acid digestion and determined by ICP - OES	2 mg/kg
Lead (Pb) Content	With reference to IEC 62321-5 Edition 1.0:2013, 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
Polybrominated Biphenyls (PBBs)& Polybrominated Diphenyl Ethers (PBDEs)	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
Dibutyl phthalate (DBP) & Di-(2-ethyl hexyl) phthalate (DEHP) & Benzyl butyl phthalate (BBP) & Di-(iso-butyl) phthalate (DIBP)	With reference to IEC 62321-8 Edition 1.0:2017, by Gas Chromatographic-Mass Spectrometric (GC-MS) analysis	50mg/kg

Tested sample: White adhesive paper.



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◆ **2. Halogen Content:**

(I) Test Result Summary:

<u>Testing Item</u>	<u>Result(mg/kg)</u>	<u>Limit (ppm)</u>
Fluorine (F) Content	87	--
Chlorine (Cl) Content	213	900
Bromine (Br) Content	ND	900
Iodine (I) Content	ND	--
– ND = Not detected. – mg/kg= milligram per kilogram based on dry weight of sample = ppm		

(II) Test Method:

<u>Testing Item</u>	<u>Testing Method</u>	<u>Reporting Limit</u>
Halogen (F, Cl, Br, I) Content	With reference to BS EN 14582:2016, by calorimetric bomb and determined by Ion Chromatography	50 mg/kg
– Reporting limit = Quantitation limit of analyte in sample		

Tested sample: White adhesive paper.



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◆ **3. Phthalate Content**

Solvent extraction and followed by Gas Chromatographic - Mass Spectrometric (GCMS) analysis.

No.	Testing Item	CAS No.	Result (%)	Reporting Limit (%)
1	Bis(2-ethylhexyl) Phthalate (DEHP)	117-81-7	ND	0.01
2	Benzyl butyl Phthalate (BBP)	85-68-7	ND	0.01
3	Dibutyl Phthalate (DBP)	84-74-2	ND	0.01
4	Diisobutyl Phthalate (DIBP)	84-69-5	ND	0.01
5	Di(2-methoxyethyl) Phthalate (DMEP)	117-82-8	ND	0.01
6	Di-n-hexyl Phthalate (DnHP)	84-75-3	ND	0.01
7	Diisodecyl Phthalate (DIDP)	26761-40-0/ 68515-49-1	ND	0.01
8	Diisononyl Phthalate (DINP)	28553-12-0/ 68515-48-0	ND	0.01
9	Di-n-octyl Phthalate (DNOP)	117-84-0	ND	0.01
10	Di-n-pentyl phthalate (DPP)	84777-06-0	ND	0.01
11	Diethyl Phthalate (DEP)	84-66-2	ND	0.01
12	Dipropyl Phthalate (DPrP)	131-16-8	ND	0.01
13	Dicyclohexyl Phthalate (DCHP)	84-61-7	ND	0.01
14	Dinonyl Phthalate (DNP)	84-76-4	ND	0.01
15	Dimethyl Phthalate (DMP)	131-11-3	ND	0.01
16	Diisooctyl Phthalate (DIOP)	27554-26-3	ND	0.01
17	Diheptyl phthalate (DHePp)	3648-21-3	ND	0.01
18	Diisononyl adipate (DINA)	33703-08-1	ND	0.01
— ND = Not detected (less than detection limit)				

Tested sample: White adhesive paper.



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Photos for Test Sample:



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