

Report No.: DGC241104041SE

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Applicant : EastRising Technology Co., Ltd.**Address** : 6G, Building A1, Zhujiang Plaza, Longgang Center City, Longgang District, Shenzhen City**The following sample(s) was/were submitted and identified on behalf of the client as:****Product Name** : Liquid crystal module**Model** : ER-TFT046-1**Manufacturer** : /**Address** : /**Date of Sample Received** : Aug. 04, 2024**Test period** : Aug. 04, 2024 - Aug. 11, 2024**Test requested**

In accordance with RoHS Directive 2011/65/EU and amendment 2015/863/EU, to determine Cadmium (Cd), Lead (Pb), Mercury (Hg), Chromium (Cr (VI)), PBBs/PBDEs, Di (2-ethyl hexyl)-phthalate (DEHP), Dibutyl phthalate (DBP), Butylbenzyl phthalate (BBP), Diisobutyl phthalate (DIBP) content on submitted samples.

Conclusion

Pass

Test method : Please refer to next page.**Test result** : Please refer to next page.**Tested by:**

George Zhang

George Zhang
(Senior Engineer)**Reviewed by:**

Tammy He

Tammy He
(Supervisor)**Approved by:**

Caby Yang

Caby Yang
(Technical director)**Date:**

Aug. 11, 2024

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Dongguan NTEK Testing Technology Co., Ltd.**Address:** Building 3, Meisaidaxin Park, Keji 8th Road, Songshan Lake High-Tech Industrial Development Zone,

Dongguan, Guangdong, China

Tel: (+86-769) 23301666**Fax:** (+86-769) 23301600**Email:** service@ntek.org.cn**http://www.dgntek.org.cn**

Test method:

1. For the Cadmium (Cd), Lead (Pb), Mercury (Hg), Chromium (Cr (VI)), PBBs/ PBDEs:

With reference to IEC 62321 Procedures for the Determination of Levels of Regulated Substances in Electrotechnical Products, XRF scanning first test, then using chemical test method to confirm.

Testing Item		Test Method	Measuring Instrument	MDL
Screening test		IEC 62321-3-1: 2013 scanning	XRF	--
Wet Chemical test	Lead (Pb)	IEC 62321-5: 2013	ICP-OES	2mg/kg
	Cadmium (Cd)	IEC 62321-5: 2013	ICP-OES	2mg/kg
	Mercury (Hg)	IEC 62321-4: 2013	ICP-OES	2mg/kg
	Chromium (Cr (VI))▼	IEC 62321-7-2:2017	UV-Vis	10mg/kg
		IEC 62321-7-1: 2015		0.10µg/cm²
	PBBs/PBDEs	IEC 62321-6: 2015	GC-MS	5 mg/kg

2. For the DEHP, DBP, BBP and DIBP:

Testing Item	Pretreatment Method	Measuring Instrument	MDL
Di (2-ethyl hexyl)-phthalate (DEHP)	IEC 62321-8: 2017	GC-MS	30mg/kg
Butylbenzyl phthalate (BBP)			30mg/kg
Dibutyl phthalate (DBP)			30mg/kg
Diisobutyl phthalate (DIBP)			30mg/kg

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1. Description of the test subject:

Sample No.	Location	Sample Description
1	Flat cable	Yellow adhesive film
2	Flat cable	Brown flat cable
3	Flat cable	Soldering tin of flat cable
4	Flat cable	SMD IC
5	Flat cable	SMD inductance body
6	Flat cable	SMD inductance copper wire
7	Flat cable	SMD diode
8	Flat cable	SMD audion
9	Flat cable	SMD capacitor
10	Flat cable	SMD resistance
11	Touch screen	Transparent wire board
12	Touch screen	Transparent glass
13	Touch screen	Black foam sticker
14	Display screen	Blue glue
15	Display screen	Gray transparent frosted plastic sheet
16	Display screen	Gray transparent glass
17	Display screen	Gray transparent smooth plastic sheet
18	Backlight assembly	Silver plastic sheet
19	Backlight assembly	Silver reflective plastic sheet
20	Backlight assembly	Transparent plastic sheet
21	Backlight assembly	White plastic sheet
22	Backlight assembly	Transparent plastic sheet
23	Backlight assembly	Milky plastic sheet
24	Backlight assembly	Black adhesive film
25	Backlight assembly	White flat cable
26	Backlight assembly	White SMD LED light
27	Backlight assembly	White plastic frame
28	Backlight assembly	Silver metal cover

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2. Test results (Unit: mg/kg):

No.	Test Method	Heavy Metals and Flame Retardants					Phthalates				Conclusion
		Cd	Pb	Hg	Cr (Cr(VI))	Br (PBBs/PBDEs)	DEHP	BBP	DBP	DIBP	
1	Screening	BL	BL	BL	BL	BL	BL	BL	BL	BL	Comply
2	Screening	BL	BL	BL	BL	BL	BL	BL	BL	BL	Comply
3	Screening	BL	BL	BL	BL	N.A.	N.A.	N.A.	N.A.	N.A.	Comply
4	Screening	BL	BL	BL	BL	BL	N.A.	N.A.	N.A.	N.A.	Comply
5	Screening	BL	BL	BL	BL	BL	N.A.	N.A.	N.A.	N.A.	Comply
6	Screening	BL	BL	BL	BL	N.A.	N.A.	N.A.	N.A.	N.A.	Comply
7	Screening	BL	BL	BL	BL	BL	N.A.	N.A.	N.A.	N.A.	Comply
8	Screening	BL	BL	BL	BL	IN	N.A.	N.A.	N.A.	N.A.	Comply
	Wet Chem.	---	---	---	---	N.D.	---	---	---	---	
9	Screening	BL	BL	BL	BL	BL	N.A.	N.A.	N.A.	N.A.	Comply
10	Screening	BL	BL	BL	BL	BL	N.A.	N.A.	N.A.	N.A.	Comply
11	Screening	BL	BL	BL	BL	BL	BL	BL	BL	BL	Comply
12	Screening	BL	BL	BL	BL	BL	N.A.	N.A.	N.A.	N.A.	Comply
13	Screening	BL	BL	BL	BL	BL	BL	BL	BL	BL	Comply
14	Screening	BL	BL	BL	BL	BL	BL	BL	BL	BL	Comply
15	Screening	BL	BL	BL	BL	BL	BL	BL	BL	BL	Comply
16	Screening	BL	BL	BL	BL	BL	N.A.	N.A.	N.A.	N.A.	Comply
17	Screening	BL	BL	BL	BL	BL	BL	BL	BL	BL	Comply
18	Screening	BL	BL	BL	BL	BL	BL	BL	BL	BL	Comply
19	Screening	BL	BL	BL	BL	BL	BL	BL	BL	BL	Comply
20	Screening	BL	BL	BL	BL	BL	BL	BL	BL	BL	Comply
21	Screening	BL	BL	BL	BL	BL	BL	BL	BL	BL	Comply
22	Screening	BL	BL	BL	BL	BL	BL	BL	BL	BL	Comply
23	Screening	BL	BL	BL	BL	BL	BL	BL	BL	BL	Comply
24	Screening	BL	BL	BL	BL	BL	BL	BL	BL	BL	Comply
25	Screening	BL	BL	BL	BL	BL	BL	BL	BL	BL	Comply
26	Screening	BL	BL	BL	BL	BL	BL	BL	BL	BL	Comply
27	Screening	BL	BL	BL	BL	BL	BL	BL	BL	BL	Comply
28	Screening	BL	BL	BL	IN	N.A.	N.A.	N.A.	N.A.	N.A.	Comply
	Wet Chem.	---	---	---	Negative	---	---	---	---	---	

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Note:

- (1) (a) It is the result on total Br while test PBBs/PBDEs by XRF, It is the result on total Cr while test Cr (VI) by XRF.
(b) Results are obtained by XRF for primary screening and further chemical testing by ICP-OES (for Pb, Cd and Hg), UV-Vis (for Cr (VI)) and GC-MS (for PBBs, PBDEs) is recommended to be performed, if the concentration exceeds the below warning value according to IEC 62321-3-1:2013 (unit: mg/kg).

Element	Polymer	Metal	Composite Materials
Cd	$BL \leq (70 - 3\sigma) < X < (130 + 3\sigma) \leq OL$	$BL \leq (70 - 3\sigma) < X < (70 + 3\sigma) \leq OL$	$LOD < X < (150 + 3\sigma) \leq OL$
Pb	$BL \leq (700 - 3\sigma) < X < (1300 + 3\sigma) \leq OL$	$BL \leq (700 - 3\sigma) < X < (1300 + 3\sigma) \leq OL$	$BL \leq (500 - 3\sigma) < X < (1500 + 3\sigma) \leq OL$
Hg	$BL \leq (700 - 3\sigma) < X < (1300 + 3\sigma) \leq OL$	$BL \leq (700 - 3\sigma) < X < (1300 + 3\sigma) \leq OL$	$BL \leq (500 - 3\sigma) < X < (1500 + 3\sigma) \leq OL$
Cr	$BL \leq (700 - 3\sigma) < X$	$BL \leq (700 - 3\sigma) < X$	$BL \leq (500 - 3\sigma) < X$
Br	$BL \leq (300 - 3\sigma) < X$	--	$BL \leq (250 - 3\sigma) < X$

- (c) The XRF screening test for RoHS elements –The reading may be different to the actual content in the sample be of non-uniformity composition.
- (d) The Screening results of Phthalates are for primary screening, and further chemical testing by GC-MS are recommended to be performed if the concentration exceeds the warning value.

Compound	Polymer
DBP	$BL \leq 600 < X$
BBP	$BL \leq 600 < X$
DEHP	$BL \leq 600 < X$
DIBP	$BL \leq 600 < X$

- (e) OL=Over Limit, BL=Below Limit, IN=Inconclusive, LOD= Limit of Detection;

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(2) mg/kg=ppm=0.0001%, N.D.=Not detected(<MDL), MDL=Method Detection Limit,
 “---”=Not conducted, “--”=Not regulated, “N.A.”=Not available.

(3)“▼” =Metal sample

- The sample is positive for Cr (VI) if the Cr (VI) concentration is greater than 0.13 $\mu\text{g}/\text{cm}^2$.
 The sample coating is considered to contain Cr (VI) ;
 - The sample is negative for Cr (VI) if Cr (VI) concentration is less than 0.10 $\mu\text{g}/\text{cm}^2$.
 The coating is considered a non-Cr (VI) based coating ;
 - The result between 0.10 $\mu\text{g}/\text{cm}^2$ and 0.13 $\mu\text{g}/\text{cm}^2$ is considered to be inconclusive
 - unavoidable coating variations may influence the determination ;
- Information on storage conditions and production date of the tested sample is unavailable
 and thus Cr (VI) results represent status of the sample at the time of testing.

(4) RoHS Requirement

Restricted substances	Limits
Lead (Pb)	0.1% (1000 ppm)
Cadmium (Cd)	0.01% (100 ppm)
Chromium(VI) (Cr (VI))	0.1% (1000 ppm)
Mercury (Hg)	0.1% (1000 ppm)
Polybrominated biphenyls (PBBs)	0.1% (1000 ppm)
Polybrominated diphenyl ethers (PBDEs)	0.1% (1000 ppm)
Di (2-ethyl hexyl)-phthalate (DEHP)	0.1% (1000 ppm)
Butylbenzyl phthalate (BBP)	0.1% (1000 ppm)
Dibutyl phthalate (DBP)	0.1% (1000 ppm)
Diisobutyl phthalate (DIBP)	0.1% (1000 ppm)

The above limits are reference with RoHS Directive 2011/65/EU and amendment 2015/863/EU.

(5) Specimens, which requested to determine Cadmium, Mercury and Lead Content, have been dissolved completely.

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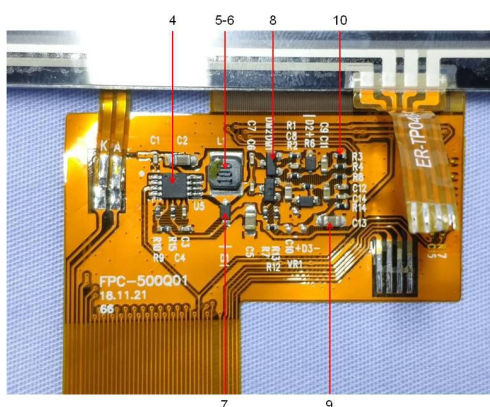
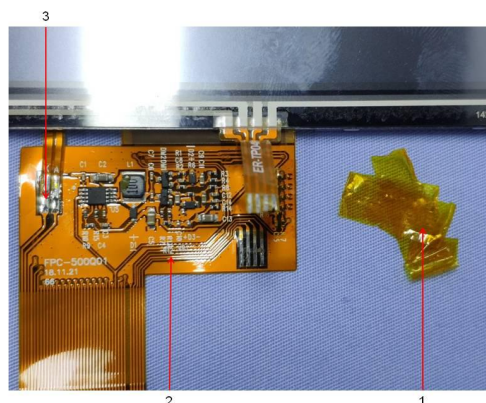
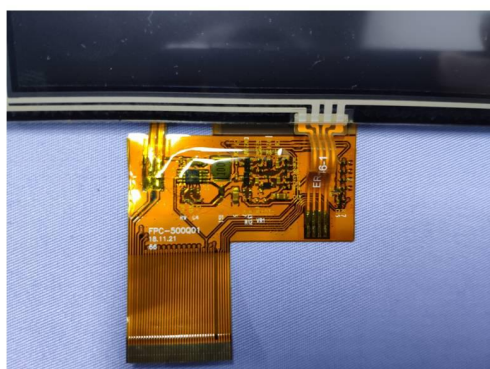
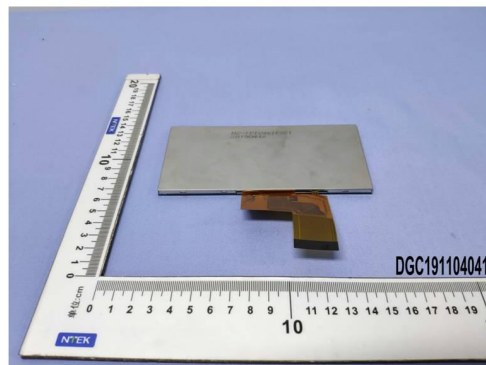
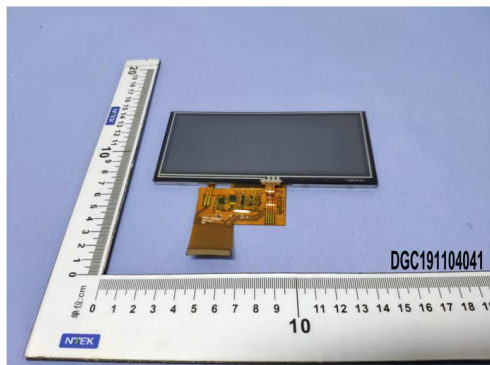
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Photographs of Sample:



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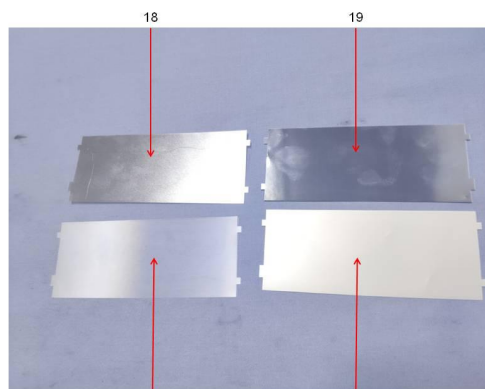
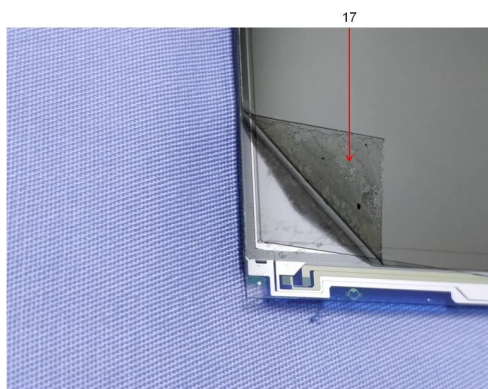
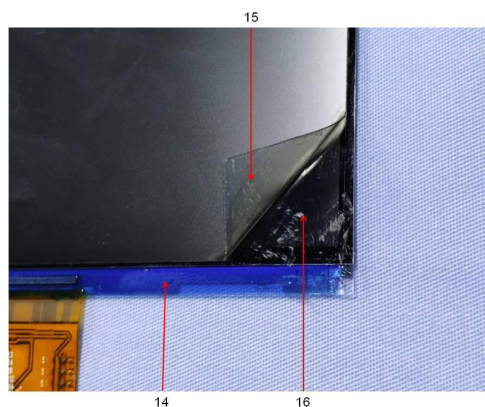
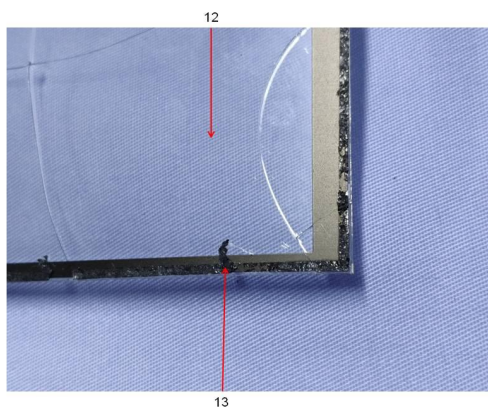
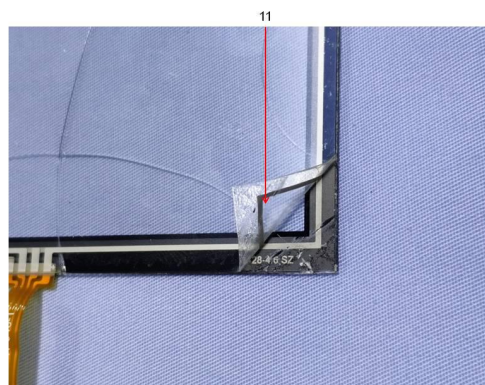
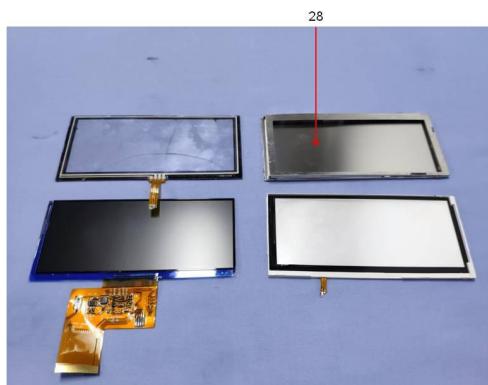
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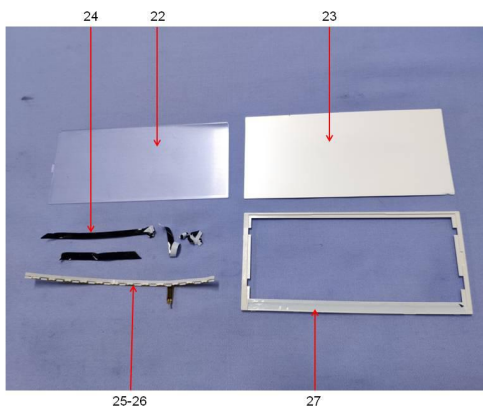
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