



# TEST REPORT

Report No.:AZT24051703C-E0

Date of issue: June 03, 2024

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**Applicant** : Onyx International Inc.  
**Address** : Room 101, Building 4, No. 202 Shiyu Road, Nansha District, Guangzhou City, Guangdong Province, China  
**Manufacturer** : Onyx International Inc.  
**Address** : Room 101, Building 4, No. 202 Shiyu Road, Nansha District, Guangzhou City, Guangdong Province, China

Report on the submitted samples said to be:

**Sample Name** : E Ink Tablet, ePaper Tablet, Digital Paper, E reader, Paper tablet, eBook reader  
**Trade Mark** : BOOX  
**Tested model** : Go 6  
**Series model** : BOOX Go 6, BOOX Go 6 Plus, BOOX Go 6 Pro, BOOX Go 6 Lite, BOOX Go Color 6, BOOX Go Color 6 Plus, BOOX Go Color 6 Pro  
**Sample Weight** : 184.30g(Include Parts)  
**Category under the WEEE Directive** : 5<sup>th</sup> Small equipment  
**Date of Sample Received** : May 17, 2024  
**Testing Period** : May 17, 2024 ~ June 03, 2024  
**Results** : Please refer to next page(s).

## TEST REQUEST

Waste electrical and electronic equipment (WEEE) Directive: 2012/19/EU

## CONCLUSION

Pass

Signed for and on behalf of AZT



Jack Zhong



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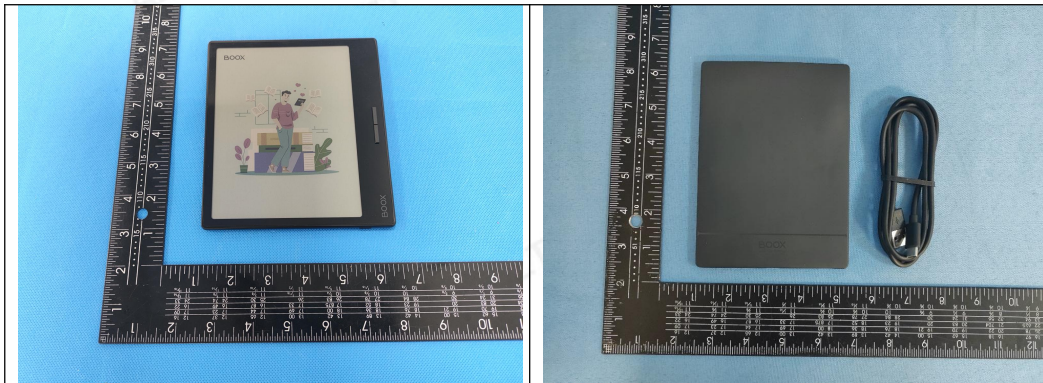
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## REQUIREMENT OF RECYCLING AND RECOVERY RATE

### 1. Result of Reuse/Recycling/Recovery Assessment

|                                                          | Rate of Reuse/Recycling (%) | Rate of Recovery (%) |
|----------------------------------------------------------|-----------------------------|----------------------|
| Reuse/Recycling/Recovery Target under the WEEE Directive | 55                          | 75                   |
| Result of Assessment                                     | 92.68                       | 92.68                |
| WEEE Compliance                                          | Pass                        | Pass                 |

### 2. Product Overview



### 3. Disassembly Assessment

#### 3.1 Disassembly Method

The product is disassembled into different parts and grouped by the type of material sharing common characteristic(such as plastic, metal, glass)based on the treatment requirements as set out in the WEEE Directive,followed by the current state of the art of recycling and recovery technology. In addition, the recycling is subject to the economic feasibility, disassembly tools, only bigger parts, respectively materials that cannot be separated by e.g. shandard tools are classified as either unspecified materials or distributed to the relative waste fraction is expected with recovery rate.

#### 3.2 Disassembly Tools

The disassembly tools used for this product show as following:

| Disassembly Tool | Diagonal cutting nippers | Slotted screwdriver |
|------------------|--------------------------|---------------------|
| Picture          |                          |                     |

#### 3.3 Connection Technique

|       |         |        |
|-------|---------|--------|
| PCB:3 | Screw:7 | Glue:0 |
|-------|---------|--------|

#### 3.4 Disassembly Time

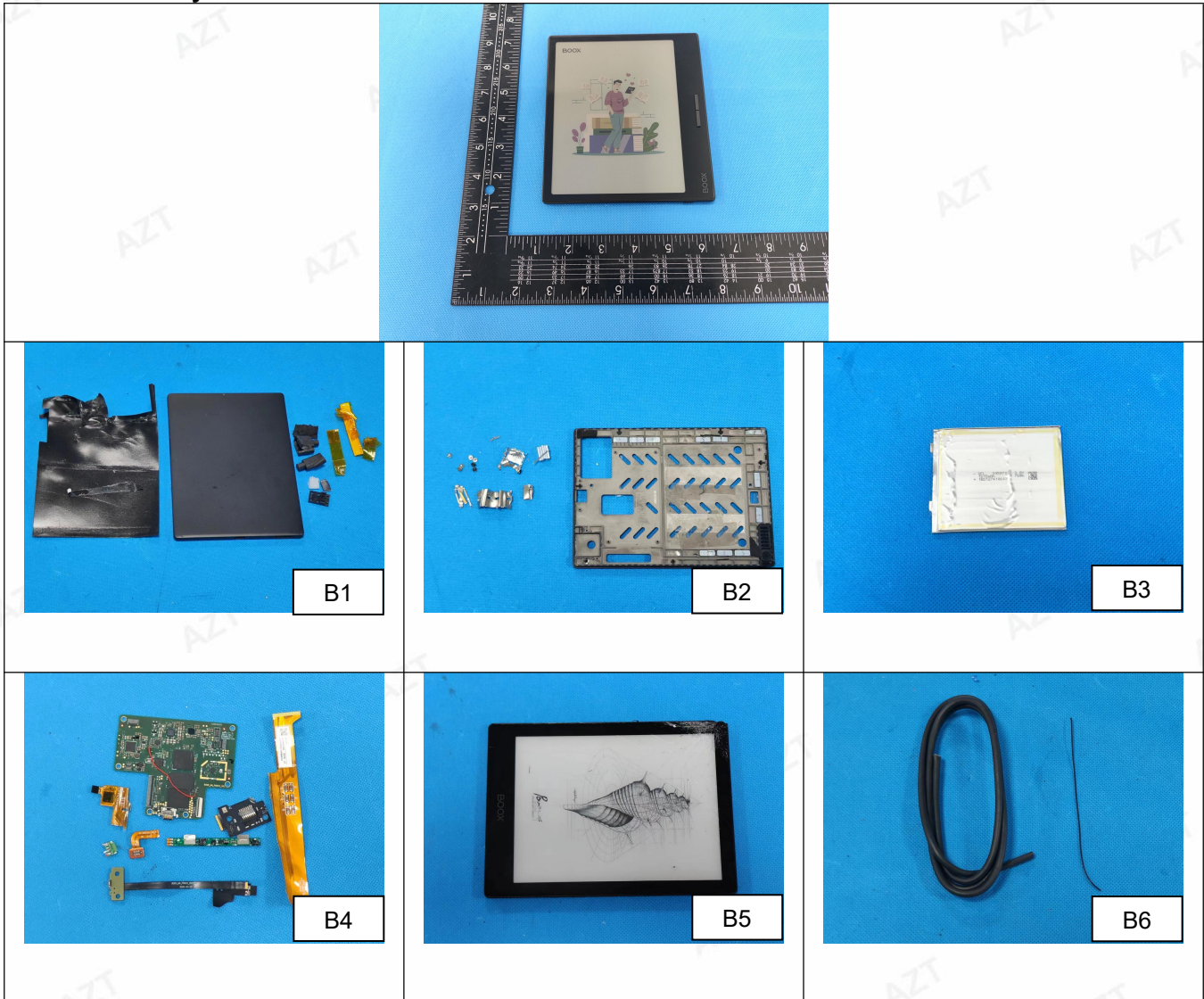
30 minutes



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## 3.5 Disassembly Tree



## 4. Selective Treatment for Materials and Components

According to Article 8(2) and the Annex VII of the WEEE Directive, this product contains components and materials items are described in the following table

| Component/Material  | Photo No. | Size(cm <sup>2</sup> ) | Quantity(pcs) | Weight(g) |
|---------------------|-----------|------------------------|---------------|-----------|
| Print circuit board | B4        | 45.88                  | 3             | 15.27     |





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## 5. Material Recycling Information

### 5.1 Material Reuse/Recycling and Recovery Table

| Photo No. | Material components        | Weight (g) | Percent Weight (%) | Reuse/ Recycling Rate (%) | Energy Recycling Rate (%) | Recovery Rate (%) |
|-----------|----------------------------|------------|--------------------|---------------------------|---------------------------|-------------------|
| B1        | Plastic Parts              | 30.16      | 16.36              | 14.73                     | /                         | 14.73             |
| B2        | Metal Parts                | 36.34      | 19.72              | 18.73                     | /                         | 18.73             |
| B3        | Battery                    | 22.34      | 12.12              | 9.70                      | /                         | 9.70              |
| B4        | PCB+ Electronic components | 15.27      | 8.29               | 7.46                      | /                         | 7.46              |
| B5        | Glass                      | 60.32      | 32.73              | 32.73                     | /                         | 32.73             |
| B6        | Wire jacket                | 19.11      | 10.37              | 9.33                      |                           | 9.33              |
| Loss rate |                            | 0.76       | 0.41               | /                         | /                         | /                 |
| Total     |                            | 184.30     | 100                | 92.68                     | 0.00                      | 92.68             |

Note: Plastic containing brominated flame retardants is not assessed in the list

### 5.2 Reuse/Recycling and Recovery Rate Calculation

| Calculation Method                                                                                           |                   |
|--------------------------------------------------------------------------------------------------------------|-------------------|
| Product total weight                                                                                         | a(g)              |
| Weight of components, sub-assemblies and consumables Which are reused for their original purpose or recycled | b(g)              |
| Weight of materials or components where energy is recovered through incineration                             | c(g)              |
| Reuse/ Recycling Rate                                                                                        | $b/a*100(\%)$     |
| Recovery Rate                                                                                                | $(b+c)/a*100(\%)$ |

## 6. Recycling/Recovery Targets under the WEEE Directive

Minimum targets set for 6 categories EEE finished product from 15 August 2018 in directive 2012/19/EU:

| Category                                                                                                                          | Recycling (%) | Recovery (%) |
|-----------------------------------------------------------------------------------------------------------------------------------|---------------|--------------|
| 1 <sup>st</sup> category (Temperature exchange equipment)                                                                         | 80%           | 85%          |
| 2 <sup>nd</sup> category (Screens, monitors, and equipment containing screens having a surface greater than 100 cm <sup>2</sup> ) | 70%           | 80%          |
| 3 <sup>rd</sup> category (Lamps)                                                                                                  | 80%           | /            |
| 4 <sup>th</sup> category (Large equipment (any external dimension more than 50 cm))                                               | 80%           | 85%          |
| 5 <sup>th</sup> category (Small equipment (no external dimension more than 50 cm))                                                | 55%           | 75%          |
| 6 <sup>th</sup> category (Small IT and telecommunication equipment (no external dimension more than 50 cm))                       | 55%           | 75%          |

Remark: Recycling and Recovery targets apply to EEE finished product listed in above table, and do not apply to modules/ components.



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## 7. ANNEX VII of WEEE Directive (2012/19/EU)

### Selective treatment for materials and components of waste electrical and electronic equipment referred to in Article 8(2):

As a minimum the following substances, preparations and components have to be removed from any separately collected WEEE:

- Polychlorinated biphenyls (PCB) containing capacitors in accordance with Council Directive 96/59/EC of 16 September 1996 on the disposal of polychlorinated biphenyls and polychlorinated terphenyls (PCB/PCT).
- Mercury containing components, such as switches or backlighting lamps.
- Batteries.
- Printed circuit boards of mobile phones generally, and of other devices if the surface of the printed circuit board is greater than 10 square centimeters.
- Toner cartridges, liquid and pasty, as well as colour toner.
- Plastic containing brominated flame retardants.
- Asbestos waste and components which contain asbestos.
- Cathode ray tubes.
- Chlorofluorocarbons (CFC), hydrochlorofluorocarbons (HCFC) or hydrofluorocarbons (HFC), hydrocarbons (HC).
- Gas discharge lamps.
- Liquid crystal displays (together with their casing where appropriate) of a surface greater than 100 square centimeters and all those back-lighted with gas discharge lamps.
- External electric cables.
- Components containing refractory ceramic fiber as described in Commission Directive 97/69/EC of 5 December 1997 adapting to technical progress Council Directive 67/548/EEC relating to the classification, packaging and labeling of dangerous substances.
- Components containing radioactive substances with the exception of components that are below the exemption thresholds set in Article 3 of and Annex I to Council Directive 96/29/Euratom of 13 May 1996 laying down basic safety standards for the protection of the health of workers and the general public against the dangers arising from ionising radiation.
- Electrolyte capacitors containing substances of concern (height > 25 mm, diameter > 25 mm or proportionately similar volume). These substances, mixtures and components shall be disposed of or recovered compliance with
- Directive 2008/98/EC
- Small equipment (no external dimension more than 50 cm) including, but not limited to: Household appliances; consumer equipment; luminaires; equipment reproducing sound or images, musical equipment; electrical and electronic tools; toys, leisure and sports equipment; medical devices; monitoring and control instruments; automatic dispensers; equipment for the generation of electric currents. This category does not include equipment included in categories 1 to 3 and 6.

## 8. Recommendations for WEEE Directive Compliance

- In order to make the product comply with the reuse/recycling/recovery target required under WEEE Directive (2012/19/EU) and the regulations of EU countries, the applicant company should consider the product they design can be easily reused and recycled by selecting recyclable materials and components.
- To make the product easily dismantled, less the disassembling time, the applicant company should design the product for easy disassembly by choosing easy separate techniques, avoiding the utilizing embedded components, designing the separable procedure.
- The product should comply with the RoHS Directive (2011/65/EU), restricting using specified hazardous substance. In addition, the materials selected to design should consider the dangerous substance regulated or list under other environmental specifications, as Regulation (EC)1907/2006(REACH), 67/54/EEC, etc.
- In case that a product have new design, or employ materials or components, then the product should be reassessed and retested in accordance with the WEEE Directive for reuse/recycle/recycling target and RoHS for restricted substances requirement.
- The applicant company should take attention to the future possible update concerning the WEEE Directive and related requirement.



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



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