

## **Application Note**

### **For Plastic Logic's UC8156 based displays**

#### **“Handling of displays”**

##### **Purpose**

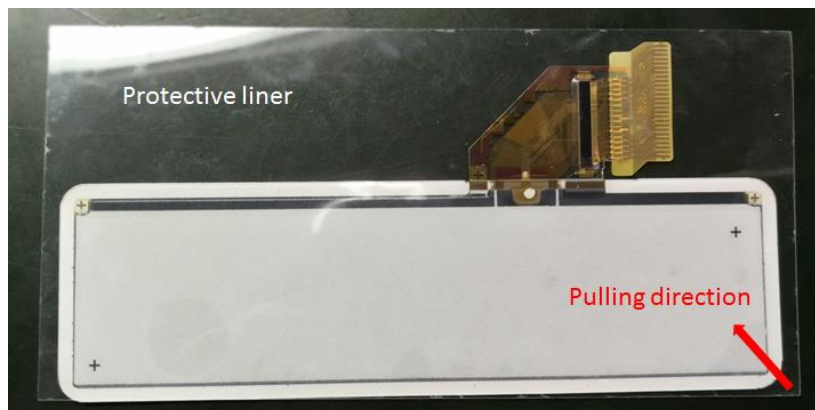
The following instructions show how to handle UC8156 based displays in order to prevent breakage of the display due to too much force on the driver chip region.

##### **Removing the protective liner**

When you receive a display from Plastic Logic it usually comes with a protective liner on top. When you remove this liner, make sure that the pulling speed (and therefore the force) is not too high. For the UC8156 based displays, typical liner removal speeds are 1-2 seconds / display.

However, the 3.1” display is a special case as the chip region is rotated by 90° as compared to all other UC8156 based displays. In this case, special care must be taken when removing the liner in order not to damage the driver chip region.

For the 3.1” liner removal, start to lift off the liner in bottom right corner and peel towards top left corner at a speed of roughly 2-3 sec / display. In case of 3.1” with long tail, make sure you fix the end of the long tail (located outside the liner) so that it doesn't move during liner removal.



##### **General handling requirements**

- Please assemble or install the displays in a clean working area.
- Take appropriate care to protect the rear side of the display module from indents and punctures as this may damage the display.
- The display module is an electrostatic discharge (ESD) sensitive device. Ensure proper ESD precautions are in place to avoid damage to the display module. Take care on grounding (e.g. wrist straps) maybe use ion fans.
- Please handle the display with care during assembly. Do not over-bend and twist the display. Protect especially the COP (chip on plastic) region.
- Do not connect or disconnect the display from the interface connector while power is on (no “hot-plugging”).
- Do not stack the displays.

## Recommended procedure to insert display into flip-lock connectors

When you insert or detach the display tail into / from the flip-lock connector of the driving board, grab it at a position as close as possible to the end of the tail with two fingers on top and bottom of the tail, in order to relieve stress from the rest of the display. Do not push/pull the display into/out of the connector by grabbing it far away from the tail. Also, don't bend the chip region (blue circle) while handling the display.

