

Outgas Analysis for Wafer Industries

Contaminants Analysis on the Surface of the Liquid Crystal before Coating Orientation Film

Normally, the glass surface of the TFT liquid crystal display (LCD) was polished by selenium oxide in the water in order to make parallel surface. The compositional end terminal of the glass was change from $-\text{SiO}_2$ to $-\text{SiOH}$ at before and after polishing.

The surface of after polishing glass is to be higher activity for adsorption of organic compounds. So that, not only outgas analysis for the wafer is important, but also that for LCD.

Figure 27 shows outgas chromatogram was obtained from before washing LCD glass at 150°C for 30 min heating by using Model SW-8.

As a results, a lot of decomposed compounds from DOP, DOP and organic acid amides were detected, and more, the total contaminants amount was 0.2 mg on 25 mm^2 surface of the glass.

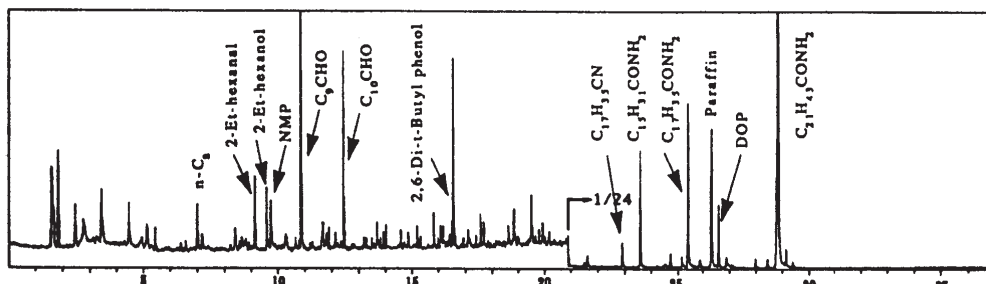


Figure 27 Outgas chromatogram obtained from before washing LCD glass

Appendix

Decomposition of DOP

