

## Supporting Information

### Water Vapor and Hydrogen Gas Diffusion Barrier Characteristics of Al<sub>2</sub>O<sub>3</sub>-Alucone Multi-layer Structures for Flexible OLED Display Application

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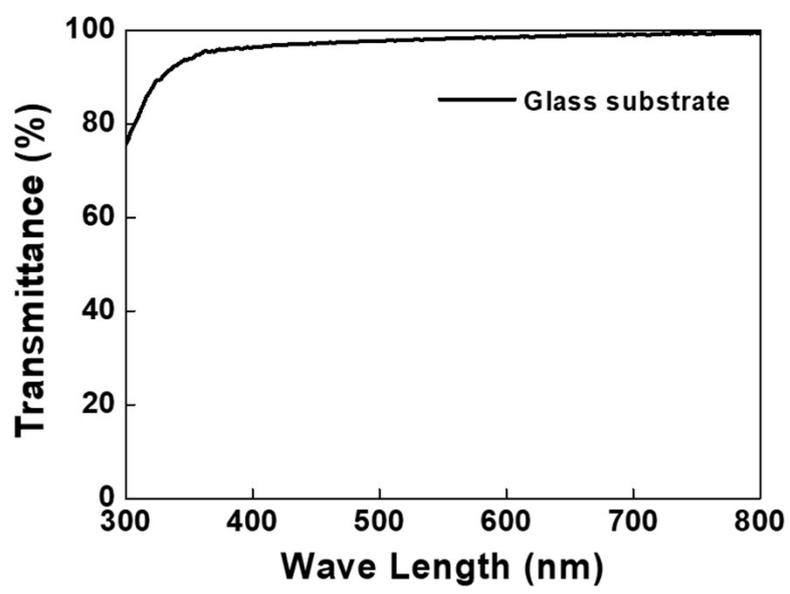


Figure S1. The optical transmittance of uncoated glass substrate.

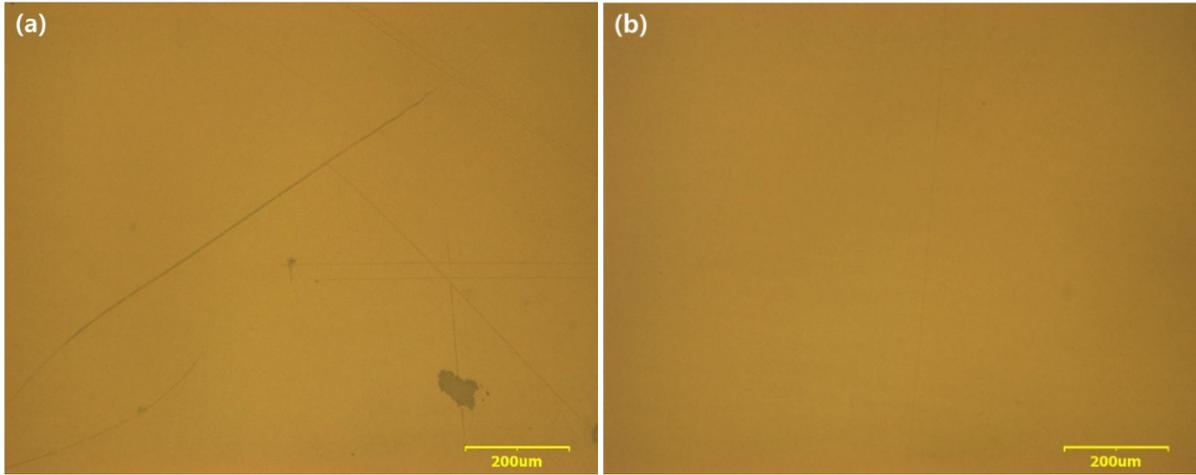


Figure S2. Optical microscopy images of (a) single  $\text{Al}_2\text{O}_3$  and (b) structure B after bending test (5000 bending cycles with 3mm radius).