

Developed
technologies

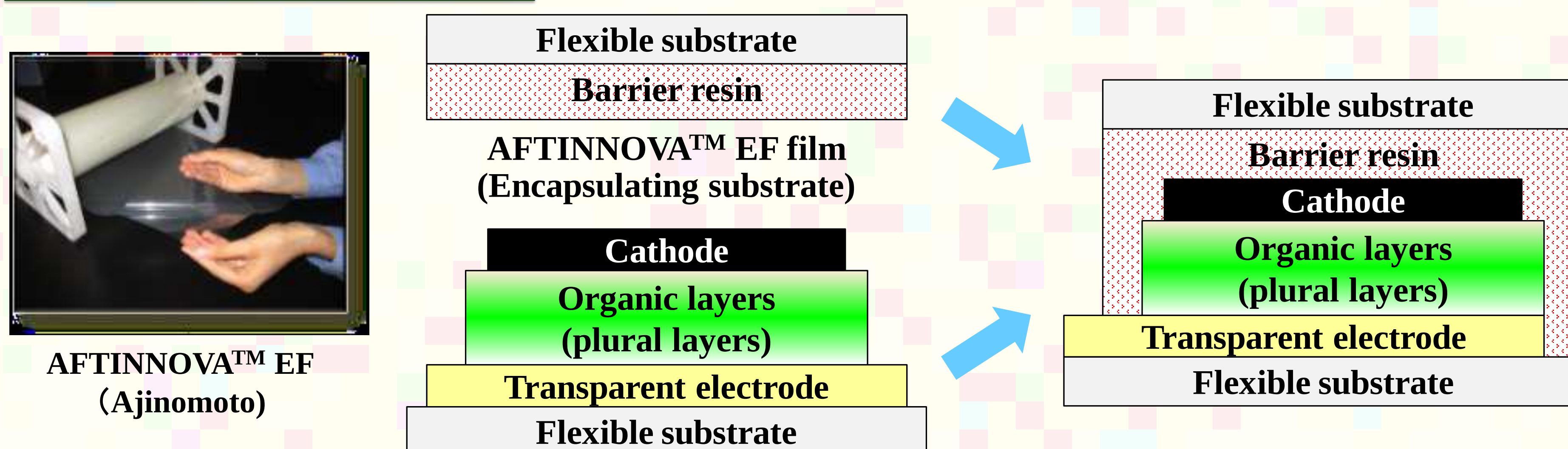
Laminating Encapsulation for OLEDs

We develop flexible OLED devices, using laminating encapsulating film
AFTINNOVA™ EF developed by Ajinomoto Co., Inc. / Ajinomoto Fine-Techno Co., Inc.

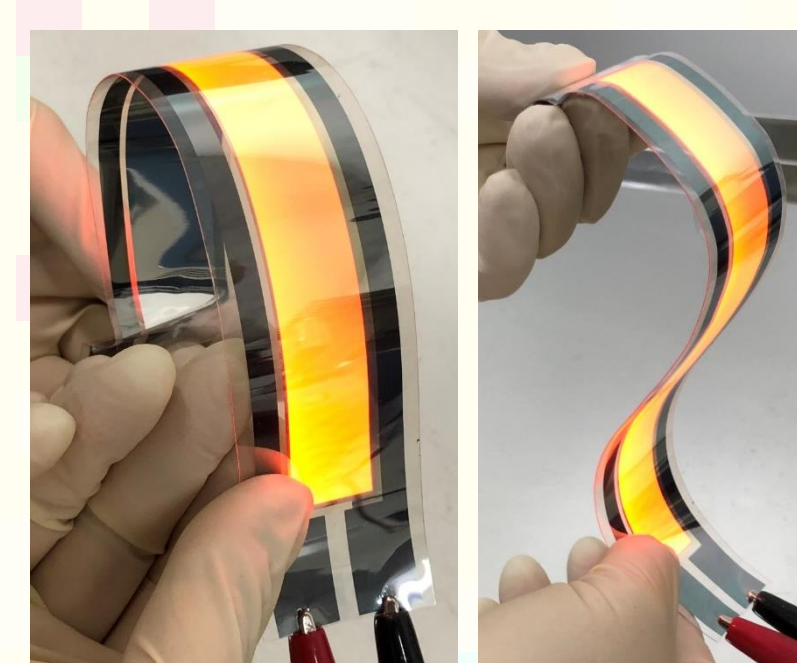
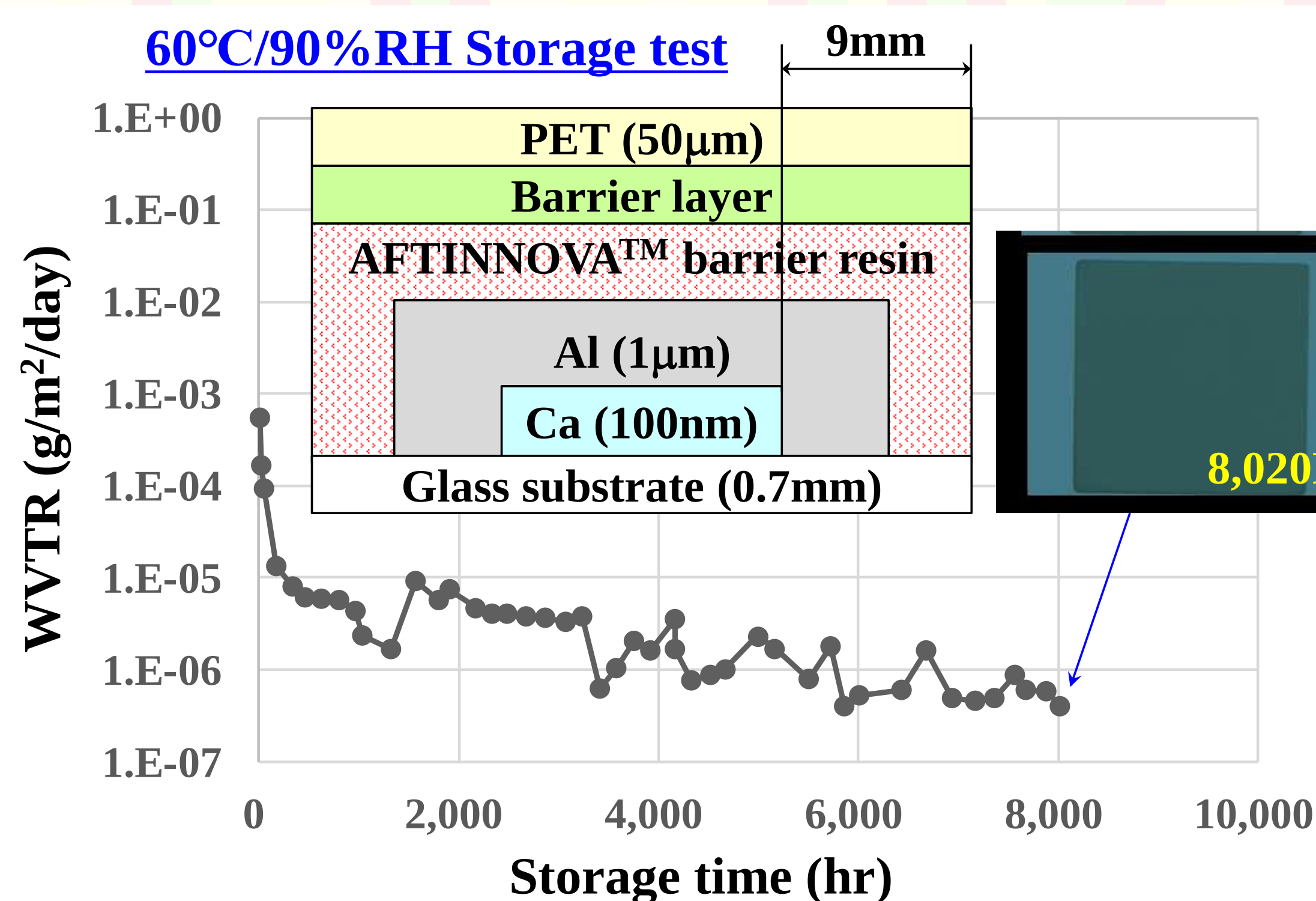
Technological features

- **AFTINNOVA™ EF** substrate protecting water penetration from side of OLED device
- Simple device architecture and simple fabrication process
- Reduction of defect occurrence by stress release effect of **AFTINNOVA™ EF**

Developed technologies



- **High gas barrier property:**
 - * No actual damage after storage test of 8,000 hours under 60°C/90%RH
 - * WVTR (Water Vapor Transmission Rate): order of 10^{-6} g/m²/day (60°C/90%RH)
- **Flexible OLED devices**



Flexible OLED device with
AFTINNOVA™ EF

Collaboration

Ajinomoto Co., Inc. / Ajinomoto Fine-Techno Co., Inc.

Related program

- Yamagata University Flexible Electronics Consortium for Academia-Industry Cooperation (YU-FLEC) [Jan. 2018~Mar. 2023]
- NEDO: Strategic technological innovation program for energy saving "Development of high efficient OLED materials" (Collaboration with CEREBA) [Aug. 2017~Mar. 2019].
- MEXT: Construction Program of Open Innovation Organization [FY2018~FY2022]