

Oral Presentation

[FLX2]Stretchable and Flexbile Devices

Chair: Manabu Ito (Toppan Printing Co.)

Co-Chair: Mitsuru Nakata (NHK)

Thu. Nov 28, 2019 5:20 PM - 6:30 PM Mid-sized Hall B (1F)

5:20 PM - 5:45 PM

[FLX2-1(Invited)]Development of Flexible / Stretchable Epoxy Film with High Thermal Stability, Especially Suitable for Versatile Printed Electronics Applications

*Noriyasu Yamane¹, Kenta Yamamoto¹, Kotaro Nozawa¹, Takashi Komori¹, Tomohide Murase¹, Takayoshi Hirai¹
(1. Mitsubishi Chemical Corporation (Japan))

Keywords:flexible and stretchable epoxy films, excellent thermal stability and physical properties, printability of conductive inks with no surface treatment, high optical transparency with low retardation, recommended substrate for FHE, 3D wirings, flexible displays, wearable sensors or medical electronics

Authors developed two types of novel epoxy films with excellent printability for conductive or dielectric inks without surface treatments. High flexible type shows high durability against repeated folding. Stretchable type shows high elongation and recovery. These are recommendable for substrates of FHE, foldable displays or lighting devices, stretchable/wearable sensors, etc.