

Hidekazu Morii

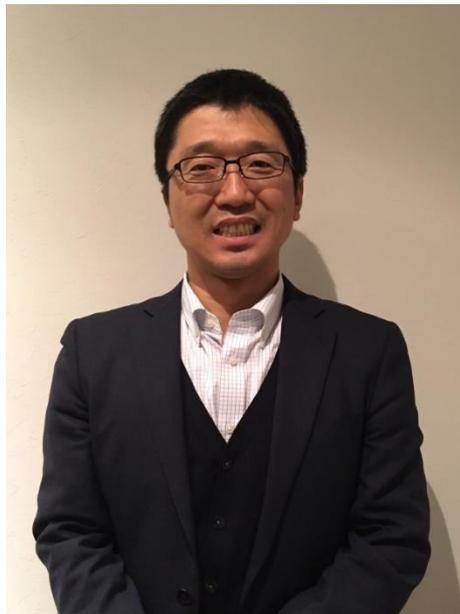
Manager, Technology Planning & Promotion Group.

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Information, Electronics and Display Business Domain

Mitsubishi Chemical Corporation



Topic:

Films for Flexible Displays

Abstract:

Flexible/Foldable display is expected to be in the market 2019 and will increase its ratio gradually. In display several functional layers exist and polymer based films are commonly used as a basefilm of these layers. Transition from Rigid display to flexible/foldable display means not only display design change, but it requires component film property changes as well, especially folding resistance increase.

As a chemical material producer, combining “Polymer library” and “film processing technology”, Mitsubishi Chemical Corp. newly designs 3 different polymer based films, polyimide, epoxy, polyester, having unique properties which conventional polymer based films do not show. The presentation includes possible applications for these unique polymer films to be used.

Bio:

After graduating graduate school of Kyoto University, Hidekazu Morii entered

Mitsubishi Chemical Corporation in 2001. His first engagement field was nanotechnology of inorganic materials, and then he moved to optical and display field as a optical designer of PDP optical filter in 2002. At this time, his main work is designing color enhancement film using organic dyes, in addition to selection of optical films e.g. Anti-reflection films, EMI shielding films, etc.

In 2004, he changed his working field to more film technology, and he contributed to the rapid expansion of PET film business of Mitsubishi Chemical Group, which is followed by Flat panel display business expansion of far east-Asia area started since early 2000. As a designer of optical grade PET films, which are used as base film with anti-reflection film, diffusion film, prism film, microlens film, hard-coated film, touch sensor film, protection film, release liner films, he has developed many new PET grades and introduced to the film market.

After more than 10 years working experience in PET film business, he was assigned to the current position in 2018 and he has started up new-polymer films development projects in which he handles three different kinds of polymers (Polyimide/ Epoxy/Polyester). These films are targeted to be used specially in flexible/foldable displays.