Heat Resistant Optical Film (F Film)

COC Film has High Optical Characteristics, Heat Resistance and Dimensional Stability.
COC (Cyclic-Olefin-Copolymer)

Features

- **Heat Resistance**
  - Film dimension is stable in the process of device fabrication.

- **Optical Characteristic**
  - (High Transmittance, Low Retardation.)
  - Transmittance 92%, Haze <0.2%, Retardation <5nm

- **Dimensional Stability**
  - Heat shrinking rate: <0.10% (at 120°C×60min)
  - Water absorption rate: 0.01%

- **Large Size and Thinner Film are Available**
  - Thickness 80 - 250μm (standard type: 80μm, 100μm, 200μm, Developing type: 50μm)
  - Max width 1350mm in MP stage. (providing in roll, Max 2000m length)

Additional Function and Applications

- **Additional Function**
  - Control retardation by film extension (λ/4): Extension film is available.
  - Various kinds of wet & dry coating (Hard coat, index matching etc.): HC film and ITO file are available

- **Application**
  - ITO film for touch panel
  - Substrate for optical filter
  - Substrate for flexible display

**Application** Anti-reflection by circular polarizer

Applying ITO F film enables lighter and thinner device.

Note PC with Touch Panel

Glass cover

F Film (with invisible ITO)

Sato
mayuka.sato@gunze.co.jp

Uramoto
hiroomi.uramoto@gunze.co.jp

GUNZE LIMITED
Electronic Components Division Material Sales Dept.
10, Shindo, Amurubecho, Kamooka City, Kyoto 621-0806 JAPAN
TEL +81-771-24-2683 FAX +81-771-24-5419