

Eastman FLEXVUE™

films

Capability: optically clear conductive films

Flexvue optically clear (OC) films offer industry-leading performance, making them the clear choice in indium tin oxide (ITO) transparent conductive films. Developed in state-of-the-art facilities, OC films offer the widest range of resistances with unmatched optical properties. OC products are produced to meet the highest quality standards at a great cross-web and run-to-run consistency.

Flexvue also offers unrivaled optical and durability enhancements that meet the needs of the most demanding applications. Both semicrystallized and crystallized ITO are available for harsh environment and heavy use applications. High-visible light transmission and neutral color are among the many optical enhancements available with Flexvue OC films.

Services

Flexvue can produce OC products based on our customer's specific requirements. Custom resistances are available on request. OC products can be slit to a wide variety of widths and lengths.

Resistance	OC50	OC60	OC70	OC80	OC100	OC110	OC200	OC250	OC300	OC500
Sheet resistance (ohm/square) ^a	40–60	50–75	60–85	60–90	65–100	85–120	170–230	200–300	250–350	450–550
Transmission (VLT%)	85	80	80	80	78	82	85	85	85	88

Substrate thickness	2 to 7 mils (50–175 microns)
Slitting	3" to 60" trimmed
Wind	3" or 6" paper or plastic cores
Roll dimensions	Widths 24" to 72"; max. O.D.: 30"

^aNominal resistance using 4-point probe. See product specification for tolerance.

Typical applications

- Touch screens/pen entry
- Sensors
- Smart windows
- Electroluminescent lamps
- Energy solutions
- Transparent heaters
- Hybrid electric vehicle batteries
- Electronic displays (LCD, EP, OLED)

Materials

Flexvue produces OC products mainly using optical-grade polyester (PET) but other film bases are available to meet customer specific requirements. Available substrates include:

- Polyethylene naphthalate (PEN)
- Polycarbonate (PC)

Additional specialty substrates such as low birefringence, UV absorbing, protective masking (1 or 2 sides), and a wide variety of hard coat options are available on request.



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