

# CLEVIOS™ ANTISTATIC AND CONDUCTIVE GLASS COATINGS



Perfect | Optics | Protection

## Clevios™ Antistatic and Conductive Glass Coatings for Shielding Applications

Clevios™ conductive polymers, known for their transparent conductive and flexible properties on plastic substrates are now available with hard, glass-like properties.

Applicable by economic wet-coating processes, Clevios™ formulations offer coatings with high pencil hardness of 6-8H and 5B adhesion on glass after only 5 minutes thermal curing at 120 °C.

Product	Application	Sheet resistance	Transmission*)
Clevios™ F EHO	Antistatic	1E7 – 9E10 Ohm/sq	98 – 99%
Clevios™ F ELO	Conductive	400 – 1500 Ohm/sq	95 – 99%

Typical properties, no specifications

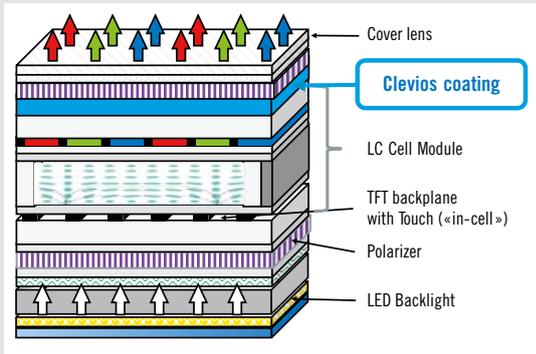
\*) transmission without glass

# Clevios™ Antistatic and Conductive Glass Coatings for Shielding Applications

Both products are ready to use formulations optimized to achieve coatings with maximum transmission, highest clarity, neutral color, and low light reflections.

The Clevios™ layers are not only scratch resistant but also highly stable and durable in damp- and dry-heat (85 °C/85 %rh; 80 °C), as well as temperature cycle tests.

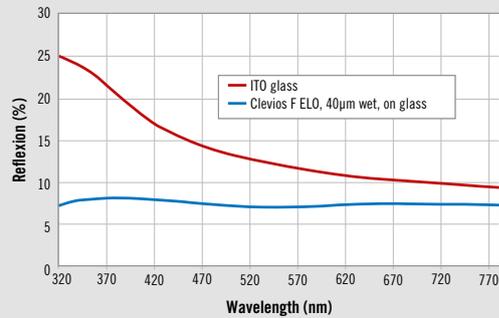
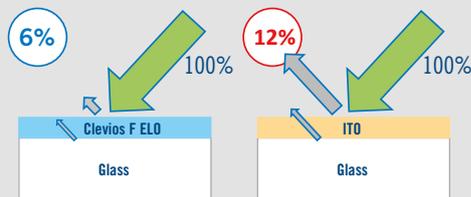
## Example: Clevios™ coatings in IPS LCD panels



## Clevios™ properties

- Antistatic: Tunable SR  $1E+07 - 9E+10 \Omega/\square$
- Conductive: Tunable SR  $400 - 1500 \Omega/\square$
- High Transmission 95 – 100%
- Low Reflexion Low Refractive Index
- Low Haze < 0,2%
- Economic wet-coating
- Fast Dry,  $\geq 5$  min, High Throughput
- 8H – 6H Pencil Hardness
- Neutral color,  $a^*, b^* \approx 0$
- Excellent Reliability at 60/90 and 85/85

## Clevios™ has good index matching with glass and low light reflection



Applications for Clevios™ F EHO/ELO include EMI shielding for IPS and in-cell touch LCD.

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# Clevios™