

# CLEVIOS™ ANTISTATIC AND CONDUCTIVE GLASS COATINGS



Crystal-Clear | Display | Protection

## Clevios™ Antistatic, Dissipative 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 and adhesion on glass after only five minutes of thermal curing at 120°C.

Product	Type	Sheet resistance	Transmission*)
Clevios™ F EHO	High-ohmic	5E7 – 5E9 Ohm/sq	>98%
Clevios™ F EMO	Mid-ohmic	1E6 – 5E7 Ohm/sq	>98%
Clevios™ F ELO	Low-ohmic	400 – 1200 Ohm/sq	>98%

Typical properties, no specifications

\*) transmission without glass

# Clevios™ Antistatic and Conductive Glass Coatings for Shielding Applications

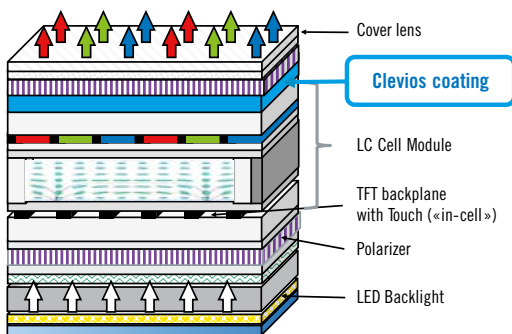
All products are ready-to-use alcohol-based formulations optimized for slot-die coating. Excellent wetting properties ensure high sheet resistance uniformities even on large glass substrates.

Crystal-clear, highly transparent, colorless layers can be coated that are scratch-resistant and highly stable and durable under damp- and dry-heat conditions (85°C/85%rh; 105°C). The sheet resistance is stable even at low temperatures (-40°C).

A special feature of Clevios™ coatings is a low light reflection, significantly lower than sputtered metaloxide layers, e.g. ITO, which is a great benefit to automotive displays. This is due to a refractive index matching of Clevios™ layer and glass substrate ( $n \approx 1.5$ ).

E 05.2022VN, Layout: www.datagraphis.de

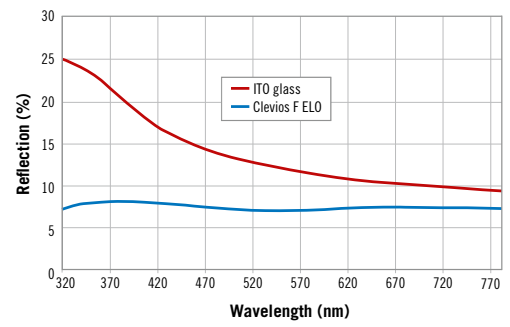
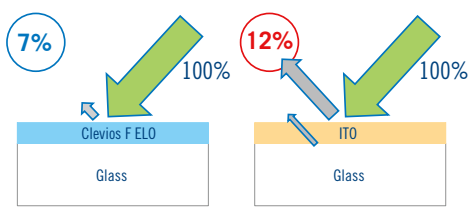
## Example: Clevios™ coatings in IPS LCD panels



## Clevios™ properties

Tunable Sheet Resistance $10^3 / 10^6 / 10^9 \Omega/\square$	High Pencil Hardness
Low Light Reflection ( $n \approx 1.5$ )	Excellent Reliability in Damp- & Dry-Heat
High Transmission > 98%	Stable SR at Low Temperature (-40°C)
Low Haze < 0.3%	Economic wet-coating

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



The conditions of your use and application of our products, technical assistance and information (whether verbal, written or by way of production evaluations), including any suggested formulations and recommendations, are beyond our control. Therefore, it is imperative that you test our products, technical assistance and information to determine to your own satisfaction whether they are suitable for your intended uses and applications. This application-specific analysis at least must include testing to determine suitability from a technical as well as health, safety, and environmental standpoint. Such testing has not necessarily been done by Heraeus. All information is given without warranty or guarantee. It is expressly understood and agreed that the customer assumes and hereby expressly releases

Heraeus from all liability, in tort, contract or otherwise, incurred in connection with the use of our products, technical assistance and information. Any statement or recommendation not contained herein is unauthorized and shall not bind Heraeus. Nothing herein shall be construed as a recommendation to use any product in conflict with patents covering any material or its use. No license is implied or in fact granted under the claims of any patent. Properties of the products referred to herein shall as general rule not be classed as information on the properties of the item for sale. In case of order please refer to issue number of the respective product data sheet. All deliveries are based on the latest issue of the product data sheet and the latest version of our General Conditions of Sale and Delivery.

**Heraeus Deutschland GmbH & Co. KG**  
 Heraeus Epurio  
 Building B202, Chempark  
 51368 Leverkusen, Germany  
 clevios@heraeus.com  
 www.clevios.com | www.heraeus.com



The data given in this brochure are valid for May 2022. Subject to alterations.