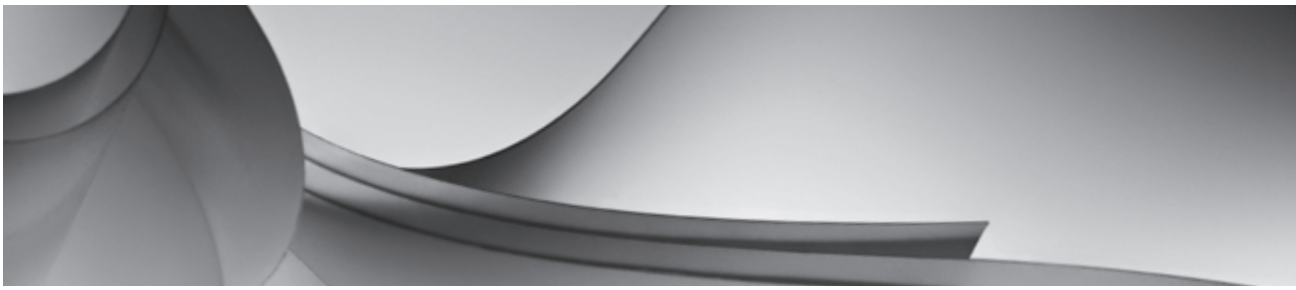
ELECTRONICS INDUSTRY



FOLEX GRAPHIC OVERLAY FILM GO – AG / AN

Semi-matt graphic overlay film with high UV stability and anti-Newton layer

Newton's rings, visible in the form of light and dark concentric circles, can occasionally be seen on displays and touch screens and are undesirable. They can greatly impair image recognition and create an unattractive optical effect.

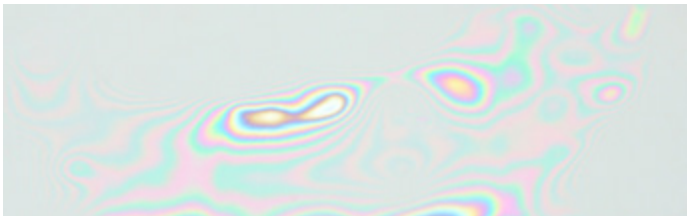


Figure: Newton's rings

There are different solutions for avoiding this interference, e.g. the printing of minute spacers, optical bonding to the display, and our product with an Anti-Newton layer. The latter solution saves an additional work step, reduces production times and makes the frequently annoying, visible spacers unnecessary.

Figure: With UV protection

The optimised, semi-matt graphic overlay film GO–AG/AN is particularly characterised by its high UV stability and its Anti-Newton layer. The GO-AG/AN polyester film can, for example, be used for various kinds of input systems, such as membrane switches, displays and touch screens.

WHAT DOES GO – AG / AN OFFER?

- High UV stability
- Avoidance of Newton's rings
- The reverse side can be screen-printed using solvent-based, two-component and UV ink systems
- Window printing on the front side using two-component and UV coatings
- Saves a work step during processing (no need to print spacers)
- Good transparency and non-reflecting surface
- Good die-cutting and embossing
- High chemical and mechanical stability, high abrasion resistance
- Reduction of costs when producing touch screens or displays
- Very good price/performance ratio

ADVANTAGES OF FOLEX GO – AG / AN AT A GLANCE

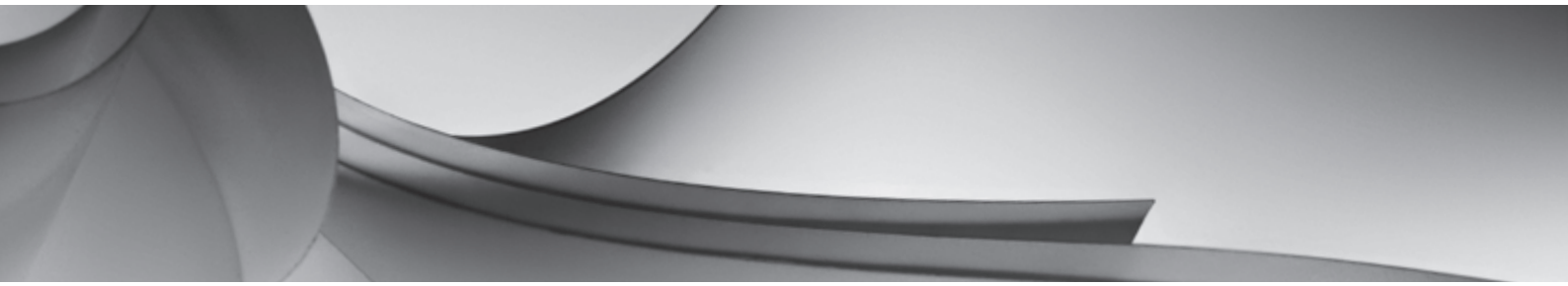
- High UV stability
- Good transparency
- Non-reflecting surface
- Avoidance of Newton's rings
- Attractive look and feel
- High mechanical and chemical stability
- Good mechanical processing properties (embossing, die-cutting)
- Processing does not require any changes to proven technology

PRODUCT APPLICATIONS

- Membrane switches
- Displays
- Touchscreens

FORMS SUPPLIED

- Available in sheets and on rolls
- Film thicknesses of 0.13 mm and 0.18 mm
- Supplied with interleaving paper as standard
- Maximum roll width: 1220 mm



THE ADVANTAGES OF FOLEX GO – AG / AN IN DETAIL

1. ANTI-NEWTON LAYER

Newton's rings occur as a result of the interference (reflection) of light on thin layers in close contact with each other and are visible in the form of light and dark concentric circles around the point of contact of the two smooth surfaces. The dark areas are caused by the compensation of light waves by superimposition (destructive interference), while the light areas result from amplification of these waves (constructive interference). This interference can be avoided by means of our Anti-Newton layer.

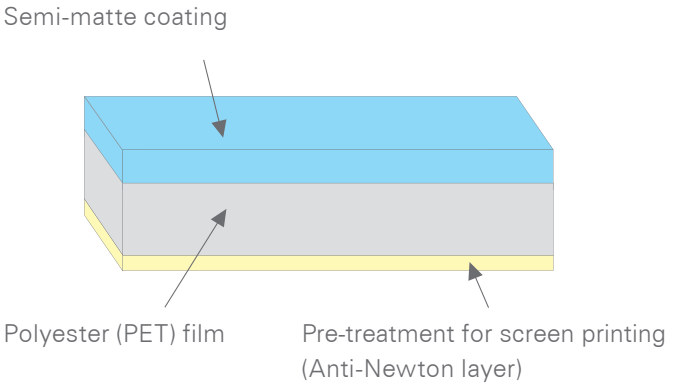


Figure: Structure of Folex GO-AG / AN

2. PRINTABILITY

The front side of the film is provided with a glare-free layer (AG for Anti-Glare) that permits window printing with two-component and UV coatings and possesses high UV stability.

3. TRANSPARENCY AND STABILITY

The film has good transparency and a non-reflecting surface. It also demonstrates high chemical and mechanical stability.

4. UV RESISTANCE

Outdoor use of films is becoming increasingly important. UV absorbers of the latest generation ensure that UV radiation with a spectral range of 360 - 250 nm (UV-A/-B/-C) does not reach the surface of the polyester carrier. This effect not only contributes significantly to protecting the substrate, but also ensures good durability of the ink-receptive coating and the printed inks.

Please test the suitability for your application in advance.

Interested? Feel free to contact us if you have any questions. We will be more than happy to help. If required, we will also be pleased to send you material samples.

Product liability clause
The foregoing information and any consulting provided by us in terms of application engineering shall be given to our best knowledge, but shall not be considered binding information neither with regard to any third party industrial property rights. Any such consulting shall not relieve you from your own review of our current consulting information as to their suitability for the intended procedures and applications. These shall be beyond our control, and be subject to your exclusive responsibility. The sale of our products shall be subject to our current "General Terms and Conditions".
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