

FOLEX PRODUCTS WITH ANTI-NEWTON LAYER

Glossy scratch-resistant and anti-reflective films with high UV stability and Anti-Newton layer

Newton rings are optical disturbances that can occur in transparent HMI (Human Machine Interface) units, such as input systems and displays, they can negatively affect the readability of images and text on the display. Newton rings, which are recognisable as alternating light and dark concentric circles (see image) are caused by the interference of light. This interference occurs when light is reflected multiple times on thin layers that are close together. In addition to reduced readability, it also creates an unattractive optical effect.



Fig.: Newton rings

There are various solutions to prevent these disturbances, such as printing small spacers, optically bonding to the display or using our products with an Anti-Newton layer. The latter solution saves an additional work step, reduces waste, shortens production times, and eliminates the often distracting, visible spacers.



For this reason, we have three products in our portfolio: One product GO-HC/AN with a high-gloss clear hardcoat on the frontside. A film with an anti-reflective hardcoat GO-HA/AN and a slightly more matt anti-glare film GO-AG/AN. These polyester films are also characterised by high UV stability. They can be used in a wide variety of HMI units such as input systems (membrane keyboards, membrane switches) and displays.

ADVANTAGES OF FOLEX PRODUCTS AT A GLANCE

- Reduction in manufacturing costs & reduction in waste
- Elimination of one process work step (no need to print spacers)
- High UV stability
- Printable using screen printing and many UV inkjet digital printers
- Good transparency
- Anti-reflective surface (GO-HA/AN and GO-AG/AN)
- Brilliant glossy surfaces (GO-HC/AN)
- Avoidance of Newton rings
- Appealing appearance and functional feel
- High mechanical and chemical stability

APPLICATIONS

- HMI
- Membrane switches
- Touchscreens
- Displays

DELIVERY FORM

- Available in sheet and on rolls
- Film thickness 0.13 mm and 0.18 mm
- Supplied with interleaving paper, no protective film on the AN layer
- Maximum roll width: 1220 mm

Interested? If you have any questions, please do not hesitate to contact us. We will be happy to assist you and send you material samples.

Product liability clause

All application related advice and information are provided to the best of our knowledge and are non-binding, including with respect to any third-party intellectual property rights. Such information does not release the user from the obligation to independently test our products and recommendations for their suitability in the intended applications and processes.

The use of our products is beyond our control and is therefore the sole responsibility of the user. Our liability remains unaffected to the extent that it is mandatory under applicable law, particularly under the Product Liability Act and in cases of intent, gross negligence, or injury to life, body, or health. Our current Terms and Conditions of Sale and Delivery apply. We reserve the right to make product improvements or changes at any time. | September 2025

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