

## FOLEX GRAPHIC OVERLAY FILM GO – MA

Matt graphic overlay film with high UV stability

Folex products have already been in successful use for many years, e.g. in the manufacture of membrane switches with matt surfaces. In GO-MA, we have developed a product suitable for universal use.

The matt graphic overlay film GO-MA is particularly characterised by high UV stability and outstanding optical quality. Without any further processing, the surface is already highly resistant to mechanical and chemical influences. Also, the time-proven technology can be retained for processing. Among other things, the matt polyester film GO-MA can be used for a wide variety of input systems and in signmaking.

Owing to its numerous advantages, polyester (PET) film is today indispensable as the base material for producing membrane switches with the required mechanical properties and solvent resistance. The weaknesses of polyester films include poor printability, due to their low surface energy, and low UV stability. These disadvantages of the base material can be eliminated by improving the surfaces on both sides, i.e. by coating the films.

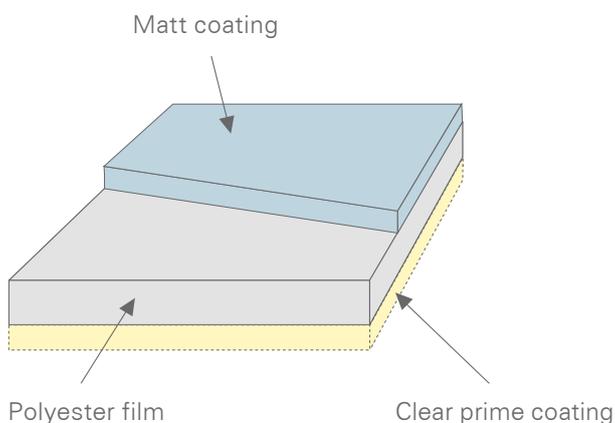


Figure: Structure Folex GO-MA

### WHAT DOES GO-MA OFFER?

- High UV and outdoor stability
- 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
- No restrictions on the printing sequence
- The fully reacted coating can be printed with UV systems at any time
- No further curing of the film is required to achieve the properties, such as scratch resistance
- Tolerant processing capability: embossing, punching, laser cutting
- High chemical and mechanical stability
- No need to change the time-proven technology for processing

### ADVANTAGES OF FOLEX GO-MA AT A GLANCE

- High UV stability
- Attractive look and feel
- Tolerant processing capability
- High mechanical and chemical stability

### PRODUCT APPLICATIONS

- Membrane switches
- Displays
- Touch screens
- Signs, labels and other non-reflecting surfaces

### FORMS SUPPLIED

- Available in sheets and on rolls
- Film thicknesses 0.13 mm, 0.18 mm and 0.25 mm
- Supplied with interleaving paper as standard
- Options, such as self-adhesive protective film or interleaving film, are available at extra cost
- Maximum roll width: 1220 mm

## ADVANTAGES OF FOLEX GO-MA IN DETAIL

### 1. UV-WINDOW PRINT

Decorative layers that have not yet been further processed using UV coatings, often contain UV-sensitive components with only limited storage stability. Long storage periods, UV radiation, or a combination of the two, cause ageing of the material, this initially being accompanied by deterioration of the adhesive properties and ultimately leading to unusability. Our test series with UV and two-component window lacquers confirm that the GO-MA film can be processed for at least 2 years when stored in normal ambient conditions. Post-curing of the decorative layer to achieve the ultimate service properties of the film is not necessary.

### 2. LAYOUT PRINTING

Since UV screen printing has been acquiring steadily growing importance in recent years, we attached great importance to this aspect. One new feature is suitability for all ink systems, i.e. it is equally possible to print with solvent-based, two-component and UV inks.

### 3. PROCESSING FLEXIBILITY

One focus of attention when developing GO-MA was to ensure maximum flexibility regarding the printing sequence. There are no longer any requirements or restrictions. Windows can be created at any time. For example, the layout can first be printed with UV inks, this then being followed by UV window printing. Needless to say, the reverse order is also possible.

### 4. UV RESISTANCE

Outdoor use of films is becoming increasingly important. UV absorbers of the latest generation ensure that UV radia-

tion 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.

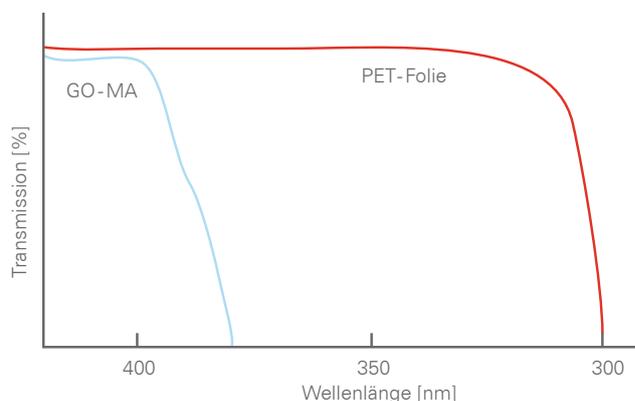


Figure: transmission in the UV range

This effect not only contributes decisively to protecting the substrate from yellowing and destruction, but also ensures a long lifetime of the ink-receptive coating and the ink layers.

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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