

DATA SHEET 22GS0.075.30500

## DIALUX SIGS

Crystal clear polyester film with highly transparent ink receiving layer and a super clear removable solvent based adhesive. Suitable for labels, posters, displays or as backlit applied directly on light diffusion boards. SIGS can be used for glass decoration and shop window graphic advertising - showcases and display cases look like "direct print".

### Printing Systems



### Rolls

Art.Number	Width (mm)	Thickness	Length (m)
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### Technical data

#### Characteristic



- High brilliance of colours
- Good scratch resistance
- Adhesive light
- Certified for HP Latex Inks
- PVC-free
- Highly transparent (clear - on - clear)
- Application possible from inside or outside when mirroring the image
- Film can be wet applied without bubbles
- Removable without residue

#### Finish

- Crystal clear, glossy
- Self-adhesive with polyester release liner

## Specifications

Release liner	Polyester
Coating Printsides	crystal clear, glossy
Width (mm)	1067
Thickness base material with toner coating	0.095 mm
Core Diameter	76 mm
Adhesion strength	~ 1.5 N / 25 mm (glued on glass), after 24 h ~ 3.5 N / 25 mm (glued on glass)
Type of adhesive	solvent based acrylic adhesive
Length (m)	20
Temperature range	glued -20°C up to +70°C
Base Material	Polyester film, optically clear, 0.075 mm
Total thickness	0.155 mm
Packing quantity	1 roll

## Compatibility

### Handling

#### Application note:

Glass has a tendency to absorb heat when it is exposed to solar radiation. In insulating glass panes that are specially covered with dark areas in whole or in part, glass breakage may result due to thermal stresses with extreme temperature fluctuations. We therefore recommend to cover only max. 25% of the glass size and to avoid dark areas of colour with high colour saturation if possible.

#### Temperature setting:

Before printing it is absolutely necessary to check that the correct drying temperature has been set by carrying out a trial print. Too high drying temperatures can lead to a deformation of the film which can later cause further problems while processing.

#### Note for Latex-Inks:

To avoid the effect of rewetting (oil film on the print surface due to defective anchorage of ink) it is necessary to establish the optimal drying parameter. This can be done by means of print tests before production print. Rewetting can appear several days after printing when the drying conditions are defective. The rewetting can also be dependent on the given ambient conditions and the composition and consistence of the printing theme. When creating a media profile, this circumstance must be expressly taken into consideration.

#### Drying time / Processing:

The VOC which are contained in solvent and latex inks must be fully dried before further processing. For this reason it is necessary to take long enough drying times into account. The drying time of the printed media depends very much on the quantity of solvent applied. When printing the film in a roll-to-roll process, the printed strip must be unrolled and laid flat as soon as possible until final drying. Solvent residues due to insufficient drying times can lead to blocking during transport in rolled-up form. During lamination such residues can negatively impact the quality of the finished product (flatness, shrinkage behaviour, anchorage, etc...).

UV inks also require a certain post-curing time after printing. The printed film surface may therefore only be loaded after at least 36-48 hours. Due to the risk of blocking, this must be observed especially when printing from roll to roll.

#### **Laminating:**

The printed surface must be protected if it is subject over a long time to humidity, abrasion, sweat or other mechanical influences. In this case the print must be protected with self-adhesive laminating films or appropriate liquid lamination products.

#### **Shipment:**

In order to avoid denting the film laminate during transport we basically recommend to wind up the finished printings on paperboard cores with minimum diameters of 76mm.

#### **Bonding:**

For an optimal transparency on glass we recommend a wet mounting of SIGS. Before mounting the glass must be clean and free of dirt, grease or other residues. If applied onto curved surfaces please be aware that label lift off can occur especially if the radius is tight. It is up to the user to test for their own suitability/application, due to the wide variety of surfaces, applications & desired results.

During mounting the glass should have a temperature of at least 15°C. As mounting help we recommend water mixed with some washing-up liquid or the use of a transfer liquid such as "Splash" from Marabu printing inks.

For the mounting humidify the glass and the SIGS adhesive uniformly and apply the printed film with the adhesive side on the glass. Then remove carefully the water with a squeegee from the middle to the edges and absorb it with a clean cotton cloth or some soft paper. The water must be completely removed to avoid the formation of bubbles due to a rest of humidity.

#### **Removal from Background:**

The removal of the mounted film from the background is facilitated by heating it up with a hair dryer or hot-air gun. For this the film must be detached slowly and steady in an acute angle.

#### **Storage**

- Shelf life: 1 year after delivery
- After printing the remaining roll must be removed from the plotter and stored in its closed original packing in a cool and dry environment.

#### **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. It is the users responsibility to determine the suitability for his/her own use and application and test through the complete production process to ensure the product is fully suitable for the intended use, since conditions of use are beyond our control. The sale of our products shall be subject to our current General Terms and Conditions. We reserve the right to make changes that serve to improve the product.