

RearProjection Transparent ASLAN RP 36



Self-adhesive transparent rear projection film for glass surfaces

RearProjection Transparent ASLAN RP 36 is a self-adhesive film that creates rear projection surfaces that can be operated with a projector. The film is so transparent that backgrounds, for instance products exhibited behind a shop window, remain visible at all times, while projections are of brilliant reproduction quality. ASLAN RP 36 is designed for application on any glass surface that is supposed to also serve as a projection screen, such as shop windows or glass panels in restaurants, malls, exhibitions, offices etc. Give your transparent surfaces an additional function and use them as a display screen for advertisement and/or broadcasts of sport events. The rear projection film is also suitable for interactive projections.

For further information or questions regarding special applications please contact our technical advisory service: **+49 2204.708-80**

Construction

Face film:	clear polyester (with special coating)	
Thickness:	~ 50 µm (~ 1.9 mil)	
Adhesive:	pressure sensitive polyacrylate	square quantity: ~ 30 g/m ²
Release liner:	siliconised polyester film	square weight: ~ 75 µm

Characteristics

Adhesive strength (ASTM D903):	immediately: after 1 week:	~ 6,0 N/25mm ~ 14 N/25mm
Dimensional stability:	applied onto aluminium after 48 hours stored at 70 °C (158 °F) (25 x 25 cm)	max. -0.05 %
Light transmission:	DIN 53147	ca. 88 %
Temperature:	application temperature: service temperature range:	min. 15 °C (59 °F) (dry application) min. 20° C (68 °F) (wet application) -30 °C (-22 °F) up to +80 °C (176 °F)
Combustibility:	Classified to flame retardant standard DIN 4102 / B1	
Viewing angle:	+/- 80 °	
Durability:	Up to 5 years outdoors, with vertical exposure, in central European standard climatic conditions.	

Processing

Digital cutting:	The self-adhesive film is ideally suited for cutting. The vertical height of capital letters should not be smaller than 10 mm. When cutting the self-adhesive film, the pen pressure should be set a higher and a cutter blade for thicker materials should be chosen.
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PVC free

Processing

Application:

The RearProjection Transparent ASLAN RP 36 film can be used with projectors, such as mobile projectors, installation projectors, short distance projectors, full HD projectors and interactive projectors.

To achieve optimum rear projection results, the following points are to be considered:

- The projector needs to have an image reversal option.
- The projection result, as with all rear projections, relates to the lighting conditions of the surroundings. In general, a high lumen projector is recommended (minimum 5,000 ANSI lumens in daylight). Direct sunlight onto the projection surface is to be avoided.



Digital cutting:

The self-adhesive film is ideally suited for cutting. The vertical height of capital letters should not be smaller than 5 mm. For the application of lettering etc. we recommend using the application tape LowTackTape ASLAN TP 110.

Application:

When installing the film with a flatbed applicator, the film is to be applied dry.

In case of a manual installation, we recommend applying the film wet. However, a wet application is only possible to a limited extent, in consideration and compliance of our separate processing instructions for wet applications. The tape should be taken off from the middle of the material to the edge.

RearProjection Transparent ASLAN RP 36 is exclusively suited for smooth, even, non-elastic and non-curved surfaces. The film must not be applied on outgassing surfaces like non-tempered acrylic glass, since bubbles might occur, particularly under short-term exposure to heat.

Storage:

Before application the films can be stored for minimum 2 years from date of production. The film must be stored at room temperature (15-25 °C / 59-77 °F) and a relative humidity of the air of 50-60%. To avoid pressure points appearing on the roll surface, we recommend the rolls be stored either vertical standing or for this purpose designed 'hanging' racks.

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All technical data and advice is based on our experience and measured testing that we believe to be reliable. It remains the customer's responsibility to test the suitability of our products for the intended purpose. The quality of our products is regularly examined, upgraded and developed. We take the right, without prior notice, to adjust, upgrade and improve the chemical structures or physical characteristics of our products in accordance with our latest knowledge.

Tips for wet application

Generally, polyester films should be applied dry. In certain cases however, e.g. applications onto large areas, a wet application is possible.

Materials: Surface cleaner (e.g. ASLAN AKR), transfer liquid (e.g. ASLAN TL 10), felt squeegee (e.g. ASLAN KRF 1) and a clean, absorbent cloth

1. Before the application, the substrate must be cleaned from dirt, dust and grease. We recommend using our surface cleaner ASLAN AKR.



The substrate should be cleaned immediately prior to the application to ensure that the surface is perfectly free of any pollution.

2. Lay the film onto a clean surface with the liner facing upwards and remove the liner in one piece and as evenly as possible. Slightly moistening the back (liner) reduces an electrostatic charging when removing the liner from the self-adhesive film.



Due to electrostatic charging, dust particles might end up on the adhesive. For more information on the topic electrostatics, please see our FAQ on the second page of this document.

3. Spray the substrate with a sufficient amount of transfer liquid (e.g. ASLAN TL 10).
4. Position the film on the wet surface. Thanks to the gliding characteristics of the transfer liquid, the film can be repositioned several times.
5. When the film has been optimally positioned, push out the transfer liquid with a felt squeegee (e.g. ASLAN KRF 1) as quickly as possible, starting from the center of the film to the edges and using firm pressure.



The more thoroughly the transfer liquid is being pushed out, the quicker the self-adhesive film will reach its final adhesion and a possible whitening of the adhesive can be prevented.

6. Remove dripping transfer liquid from the edges of the film by wiping them with an absorbent cloth, and once again press the film firmly on the substrate using the felt squeegee. Should the adhesive nevertheless turn white, this effect will disappear after a few days depending on the climatic conditions.



Repeating the procedure of firmly pressing the film on the substrate after a couple of hours will enhance the quality of the application.

General instructions:

When applying the film wet, the buildup of the adhesive strength will be delayed. Depending upon the environmental conditions, it might take several days until the final adhesion is reached. During this time period, a mechanical stress on the film should be avoided.

To prevent bubbles from occurring, an exposure of the application to large temperature fluctuations and direct sunlight should be avoided.

For the wet application of cut letters etc., we recommend using the paper tape ASLAN TP 110. After a short drying time, the paper tape should be removed in an 180° angle.

ELECTROSTATIC CHARGES DURING THE APPLICATION OF SELF-ADHESIVE FILMS

What is electrostatic charge?

Electrostatic charge is an unavoidable side effect that appears during the handling of isolated materials such as paper, textiles or plastics. It is created by the energy that is required to move the items during handling. The higher the speed of this movement (friction) the stronger the electrostatic charge.

Electrostatic charges can also be an issue during the application of self-adhesive films. When removing the liner from the self-adhesive film, it gets electrostatically charged. The degree of the charge depends on various factors: Humidity as well as the grounding of materials, persons and used machinery plus the speed of removing the liner play an important role. An electrostatically charged self-adhesive film attracts dust and lint and is more difficult to apply.

How can I reduce and control electrostatic charge during the application of self-adhesive films?

Avoid dust

The ideal environment for the application of self-adhesive films is free of any dust. Clothes should be free of lint. The working area should not be cleaned immediately prior to the application, in order to avoid dust being raised.

Humidity

Dry air increases the danger of an electrostatic charge. To avoid this, use a bowl or a bucket filled with water. The evaporating water ties the dust particles and reduces the electrostatic charge.

Alternatively, prior to the application, use a spray bottle to humidify the air, which will enhance the effect of dust particles being tied.

Grounding

Additionally, the person applying the self-adhesive films can himself be electrostatically charged, making the application more difficult. To discharge, it is helpful to touch a grounded metallic object.

Tips for reducing electrostatic charge when applying self-adhesive films with a laminating machine

When using a laminator at high speed, an above-average electrostatic charge might occur. The following measures can be taken to minimize this effect:

- Grounding the machine
- Using special „anti-static“ tapes which discharge the electrostatic charge
- Increasing the humidity, since dry ambient air cannot dissipate sufficient electrostatic charge