

LoopPet Clear ASLAN DRP 18



Transparent polyester digital printing film made with 70 % post-consumer recycled polyester

This self-adhesive digital printing film is manufactured with 70 % content of post-consumer recycled polyester (PET) made of shredded and cleaned plastics. Its glossy surface ensures high-quality printing with latex and UV curable inks while not only being PVC free but also being equipped with a solvent-free adhesive.

The film is ideally suitable for applications on flat surfaces, both indoors and outdoors. Furthermore, LoopPet Clear ASLAN DRP 18 matches perfectly with the recycled PET laminate LoopLam ASLAN SRL 19 – a PVC free, environmentally-friendlier and forward-thinking combination of recycled plastics for more sustainable digital printing.

For further information or questions regarding special applications please contact our technical advisory service:
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Construction

Face film:	Polyester (70 % content of post-consumer recycled polyester)	
Thickness:	~ 50 µm (~ 1.9 mil)	
Adhesive:	Polyacrylic pressure sensitive adhesive	Square quantity: ~ 25 g/m ²
Release liner:	Siliconised PET release liner	Thickness: ~ 75 µm

Characteristics

Adhesive strength (ASTM D903):	Immediately: After 72 hours:	~ 3 N/25 mm ~ 14 N/25 mm
Dimensional stability:	Applied onto aluminium after 48 hours stored at 70° C (25 x 25 cm)	No shrinkage measurable
Chemical resistance:	In a preece test of 24 hours, the applied film is resistant to most petroleum-based oils, greases and aliphatic solvents, mild acids and mild alkalis.	
Light proofness:	DIN 53 388	Non-fade grade: 7-8 (wool-scale)
Combustibility:	Classified to Euroclass flame retardant standard DIN EN 13501-1: B-s1, d0	
Temperature:	Application temperature: Service temperature range:	min. 10 °C (50 °F) -30 °C (-22 °F) up to +80 °C (176 °F)
Durability:	Up to 3 years outdoors, with vertical exposure, in central-European standard climatic conditions	

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Processing

Digital cutting:	The self-adhesive film is ideally suited for cut letters. The vertical height of capital letters should not be smaller than 20 mm (0.8").
Printability:	The material is printable with common latex and UV curable as well as screen printing inks.
Application:	<p>The film is to be applied dry or wet.</p> <p>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.</p> <p>During the handling of isolating materials electrostatics could not be avoided. Therefore an adequate earthing and a dust free environment are important. Increasing air humidity also helps to reduce the electrostatic charge.</p> <p>LoopPet Clear ASLAN DRP 18 is exclusively suited for smooth, even, non-elastic and non-curved surfaces. The film must not be applied on outgassing surfaces like nontempered acrylic glass, since bubbles might occur, particularly under short-term exposure to heat.</p>
Storage life:	Before application the films can be stored up to 2 years from date of production. The film must be stored at room temperature (15-25 °C / 59-77 °F) and at a relative air humidity of 50-60%. To avoid pressure points appearing on the roll surface, we recommend the rolls be stored either standing vertically or in a purposely 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

Papergraphics is proud to be the UK importer and distributor of the unique ASLAN self-adhesive vinyl range.

Overview

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papergraphics

ASLAN and Papergraphics have a long-standing partnership with combined expertise of over 100 years in developing and supplying premium large-format digital print media for print service providers (PSPs). ASLAN self-adhesive products focus on quality, creativity and application problem-solving to make printing, installing and using ASLAN self-adhesive vinyl and films easy and effective for both PSPs and their customers.

If you'd like to know more about the availability of ASLAN self-adhesive vinyl and films or would like to discuss your project's needs with one of our experts, **please call the team at Papergraphics on 0345 1300 662**
