

MonsterLAM ASLAN SL 05

Extra thick gloss protective film for outdoor use

This 300 µm thick, abrasion-resistant gloss protective film can be applied to flat and slightly curved surfaces. It is suitable for the protection of surfaces even in the most difficult conditions. For example, it is ideal for applications to motocross bikes and construction machinery that are exposed to high mechanical abrasion. It is extremely hard-wearing and will shield against stone chips. The excellent properties of the water-based adhesive is compatible with all common printing systems including UV-curable inks without causing any silvering.

When used as a laminating film in conjunction with the MonsterTack ASLAN DFP 05 digital print media, it offers applications that are resistant to solvents and lubricating oil.

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

Construction

Face film:	Special PVC, glossy, clear	
Thickness:	~ 300 µm (~ 12 mil)	
Adhesive:	pressure sensitive polyacrylate	square quantity: ~ 40 g/m ²
Release Liner:	silicone cardboard	square weight: ~ 140 g/m ²

Characteristics

Adhesive strength (ASTM D903):	immediately after 1 week	~ 7 N/25mm ~ 17 N/25mm
Dimensional stability:	applied onto aluminium after 48 hours stored at 70 °C (158 °F) (25 x 25 cm)	max. -0,5 %
Chemical resistance:	In a prece test of 24 hours the applied film is resistant to most petroleum-based oils, greases and aliphatic solvents, mild acids, alkalis and salts.	
Combustibility:	Stuck on aluminum, the film is self-extinguishing.	
Temperature:	application temperature: service temperature range:	min 15 °C (59 °F) -30 °C (-22 °F) up to +80 °C (176 °F)
Durability:	Up to 2 years outdoors, with vertical exposure, in central European standard climatic conditions.	

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Processing

Digital cutting:

The film is ideal for plotting. The cap height of lettering should be at least 10 mm. When plotting the self-adhesive film, work with an increased knife pressure. The plotter knife should be set to a thick quality.

When plotting the combination of protective film and digital print film, use a 60° knife with the depth set for the thickness of the medium and at a strength of 310 g.

Application:

Application dry or wet. If application wet, a possible whitening of the adhesive occurs but will fade away after a couple of days depending on the weather.

For wet applications we recommend the transfer liquid ASLAN TL10.

When protecting prints, the film should be applied dry. The print should be allowed to dry for at least 48 hours before lamination.

We recommend to perform a test application before applying the film onto surfaces with a non-stick coating such as box bodies for trailers, which are made out of plywood material, or plastic waste bins.

The film can be removed without leaving any residue on most smooth surfaces. It is recommended that the laminate be used to protect digital prints rather than directly protecting the substrate. Adhesion and removal tests should be carried out before large-scale applications.

Storage:

Before application the film 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 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.