

X^e Dichroic Flim Technical Data

Construction

Face film:	Glossy polyester film with coating	
Thickness:	~ 110 µm	
Adhesive:	Solvent-based polyacrylic pressure sensitive adhesive	Square quantity: ~ 25 g/m ²
Release liner:	Siliconized PET film	Square weight: ~ 70 g/m ²

Characteristics

Adhesive strength (ASTM D903):	Immediately: After 72 hours:	~ 0.7 N/25 mm ~ 2.4 N/25 mm
Dimensional stability:	Applied onto aluminium after 48 hours stored at 70° C (25 x 25 cm)	No shrinkage measurable
Temperature:	Application temperature: Service temperature range:	min. 10 °C -5 °C up to +50 °C
Durability:	Up to 2 years outdoors, with vertical exposure, in central-European standard climatic conditions.	

Processing

Application:

In general, the film can be applied dry. A wet application reduces static and helps positioning. Being a PET base film water can't diffuse through the film. Therefore, all water used has to be squeegeed out during application.

Xe Dichroic Flim 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.

To bring out the colour effect as ideally as possible, the substrate should be absolutely smooth and homogenous as well as free of dust, grease and oil. To minimize an electrostatic charge during the application, the humidity of the working environment should be increased and machines, e. g. laminators, should be grounded (please also see our separate tips on reducing electrostatics).

The liner should be removed 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. When applying the product dry, a laminator or a flatbed applicator should be used.

To receive a homogenous look, each sheet of film should always be applied in the same direction to avoid contrary colour effects. Combinations of vertical and horizontal applied sheets are not recommended.



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Processing:

The film can be cut using a flatbed cutter as well as a roll cutter with tangential head using a 60° knife.

Storage life:

Before application the film can be stored for minimum 2 years from date of production. The film must be stored at room temperature (15-25 °C) 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 in for this purpose designed 'hanging' racks.