

## HORIZon

### PRODUCT DESCRIPTION

Ultra clear, high gloss polyurthane self-adhesive laminating film.

**Face Material:** 35 µm ultra clear, high gloss Polyurthane

**Adhesive:** Solvent acrylic permanant transparent

**Liner:** Clay coated 135 g/sqm

### TYPICAL USE

Laminating film especially designed for long term outdoor applications on flat, curved and riveted surfaces in order to:

- retard colour fade and offers superior protection against abrasion, UV radiation and acid rain
- provides an ultra clear, high gloss finish
- enhance colours of the prints
- highly conformable for curved and riveted surfaces

### PROCESSING

Specifically designed for media printed with Solvent, Eco-solvent, mild-Solvent, Latex and UV-curable inks.

For specific settings of the laminator, please consult the technical manual that comes with the laminator from the original supplier.

For outdoor use, care should be taken to prevent water penetration from the sides of the laminates.

The printed media should be perfectly dry prior to lamination and be left to dry for at least 24h.

Mactac Laminating media must be applied following the instructions in TB 4.1 "Guidelines on handling, converting and applying Mactac Digital media", available from the resource section at [www.mactacgraphics.eu](http://www.mactacgraphics.eu).

### SHELF LIFE

2 years when stored at 15 to 25°C and ± 50 % relative humidity (in the original packaging).

### PHYSICAL PROPERTIES (TYPICAL VALUES)

Average Values Test Method

Thickness		
Face (microns)	35 µm	ISO 534
Adhesive data, 23°C (N/25 mm)		
Peel adhesion on glass		
- Quick tack	11	FTM9
- 24 hour residence	17	FTM1
Dimensional stability		
Shrinkage (48 hours at 70°C applied on Aluminium)	Max. 0.15 mm	FTM14
Temperature ranges		
Minimum application temperature (°C)	+ 5°C	
Service temperature range (°C)	- 30 to + 100°C	
Certifications		
Fire Classification	Self-extinguishing	
Solvent and chemical resistance		
Resistant to detergents, acids, oils and diluted (50%) alcohols. Resistant to short contact periods with gasoline. Not recommended for contact with aromatic solvents, non diluted alcohols, ketones.		

### EXPECTED DURABILITY

#### Central Europe Zone 1

Unprocessed	Up to 7 years	ISO 4892-2
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Note : Overlamination of the inkjet-printed material delays the eventual colour fading that may occur over time. This colour fading is dependent on the quality of the inkjet inks, the orientation of the printed material, the angle of display and the exact geographical location of exposure.

Exposure to severe temperatures, ultraviolet light, and/or conditions in Southern European countries, tropical, sub-tropical or desert regions will cause more rapid deterioration. This also applies to polluted areas, high altitudes and south-facing exposure.

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