

## PERMAfun Carbon Fibers

### PRODUCT DESCRIPTION

Premium polymeric laminating film with a Carbon fiber texture.

**Face Material:** 150 µm clear textured PVC

**Adhesive:** Solvent acrylic permanent transparent

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

### TYPICAL USE

Laminating film specifically designed for medium-term indoor and outdoor applications on flat and slightly curved surfaces in order to:

- retard colour fade and protect printing media against UV radiation and abrasion
- enhance colours of the prints
- customize the media with homogeneous unique texture finish

Suitable for interior decoration: displays, Point of Sale, hotel decoration.

### 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)	150 µm	ISO 534
Adhesive data, 23°C (N/25 mm)		
Peel adhesion on glass		
- Quick tack	15	FTM9
- 24 hour residence	20	FTM1
Dimensional stability		
Shrinkage (48 hours at 70°C applied on Aluminium)	Max. 0.6 mm	FTM14
Temperature ranges		
Minimum application temperature (°C)	+ 5°C	
Service temperature range (°C)	- 45°C to + 70°C	
Certifications		
Fire Classification	C-s2, d0	EN13501-1

### EXPECTED DURABILITY

#### Central Europe Zone 1

Processed*	Up to 3 years	ISO 4892-2
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\*For more information, refer to "TB 7.5 Outdoor Durability of Mactac Graphics - Self-adhesive films".

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.

*DISCLAIMER*

For more information on the durability and exposure please visit the “Mactac Technical Bulletin TB 7.5 Outdoor Durability of Mactac Graphics - Self-adhesive films” on the [www.https://www.mactacgraphics.eu](https://www.mactacgraphics.eu) website.

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