



## Technical Data Sheet

# PERMAGARD 7281 XL

### PERMACOLOR

The PERMACOLOR system is a series of pressure-sensitive products used for mounting and protecting in the photographic and graphic industries. Pressure-sensitive PERMACOLOR provides fast, efficient processing through roll lamination techniques without the need for heat or drying.

### PRODUCT DESCRIPTION

#### **PERMAGARD 7281 XL**

- is a 70  $\mu$  gloss PVC film coated on one side with a clear solvent acrylic pressure-sensitive adhesive. It is protected by a white paper liner, which is easy to remove.
- is designed for overlaminating and protecting large photographic prints, transparencies and other printed medium. Suitable for interior and exterior environments, it provides a uniform, gloss surface to the photographic image while providing protection against abrasion, moisture and other potentially damaging effects.
- helps retard colour fade caused by ultraviolet light exposure.
- does not influence the pH level of the substrate to which it is applied
- is designed for very large format (2m wide).

### PHYSICAL PROPERTIES

	<u>Typical values</u>	<u>Test method</u>
<b><u>Adhesive</u></b>		
Quick Tack on glass (N/25 mm)	15	FTM 9
Peel 180° on glass (N/25 mm)		
- after 20 minutes	21	FTM 1 (ASTM D 903-49)
- after 24 hours	23	FTM 1 (ASTM D 903-49)
Shear on glass (hours)	1000	FTM 8
1 kg - 25 mm x 25 mm		
Dimensional stability (MD & CD)	<0.8 %	FTM 14
Flammability	self-extinguishing	sample mounted on aluminium
<b><u>Release liner</u></b>		
White kraft paper (gr/sqm)	80	ISO 536
<b><u>Thickness</u></b>		
Film + adhesive ( $\mu$ )	95	ISO 534 (ASTM D 645)

### HEAT RESISTANCE

Application temperature range : + 5°C to + 40°C  
End-use temperature range : - 30°C to + 70°C

*For temperatures outside those quoted above, please consult with MACtac.*

## **CHEMICAL RESISTANCE**

Resistant to short contact with water, detergents, alcohol and some aliphatic solvents.  
Not recommended for use in contact with ketones, esters, aromatic and chlorinated hydrocarbons.

*For further technical advice, please consult with MACtac.*

## **SHELF LIFE**

2 years when stored at 15 to 25°C and ± 50 % relative humidity.

## **DURABILITY**

**PG 7281 XL** will give satisfactory performance up to 4 years for **outdoor** exposure.  
The durability does not relate to the image protected but only to the laminating film.  
**Indoor** exposure will increase the durability values of the laminating films.

**Note** : *These end-use life estimates are based on accelerated ageing studies and **outdoor** exposure, under conditions experienced in vertical exposure and in "normal" temperate climates. Exposure to severe humidity and ultraviolet light, as in southern European countries, and also in tropical, sub-tropical or desert regions, will cause a more rapid deterioration. This also applies to polluted areas, high altitude, horizontal and /or south-facing exposure.*

## **RECOMMENDATION**

For outdoor use, care should be taken to protect the sides of the laminates in order to avoid water penetration.

Due to the increasing number of new printing methods appearing on the market, it is important for the Converter to satisfy himself about the suitability of the PERMAGARD film for the application to the printed image.

### **IMPORTANT NOTICE**

*All MACtac products are subject to careful quality control throughout the manufacturing process and are warranted to be of merchantable quality and free from manufacturing defects.  
Published information concerning MACtac products is based upon research which the Company believes to be reliable although such information does not constitute a warranty.  
Because of the variety of uses of MACtac products and the continuing development of new applications, the purchaser should carefully consider the suitability and performance of the product for each intended use, and the purchaser shall assume all risks regarding such use. The seller shall not be liable for damages in excess of the purchase price of the product nor for incidental or consequential damages.  
All specifications are subject to change without prior notice.*