



Technical Data Sheet

PERMAGARD 7291

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 7291

- is a 200 μ matt PVC film coated on one side with a clear solvent acrylic pressure-sensitive adhesive. The adhesive is protected by a clear polyester release liner that provides complete visual inspection of the product, easy liner removal and a distortion-free adhesive surface.
- has excellent anti-reflective properties and is designed for protection and encapsulation of photographic images and posters.
- helps retard colour fade caused by ultraviolet light exposure.
- does not influence the pH level of substrate to which it is applied.

PHYSICAL PROPERTIES

	<u>Average values</u>	<u>Test method</u>
<u>Adhesive</u>		
Quick Tack on glass (N/25 mm)	30	FTM 9
Peel 180° on glass (N/25 mm)		
- after 20 minutes	37	FTM 1 (ASTM D 903-49)
- after 24 hours	32	FTM 1 (ASTM D 903-49)
Shear on glass (hours) 1 kg - 25 mm x 25 mm	> 1000	FTM 8
Flammability	self-extinguishing	sample mounted on aluminium
<u>Release liner</u>		
Transparent polyester 36 μ (gr/sqm)	50	ISO 536
<u>Thickness</u>		
Film + adhesive (μ)	235	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 \pm 50 % relative humidity.

DURABILITY

PG 7291 will give satisfactory performance up to 1 year.

The durability does not relate to the image protected but only to the laminating film.

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 and south-facing exposure.*

RECOMMENDATION

For outdoor use, care should be taken to protect the sides of the laminates with silicone 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.