



Technical Data Sheet

PERMAFLEX 6200

PERMACOLOR

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

PRODUCT DESCRIPTION

PERMAFLEX Series is a family of relatively thick films that are coated with solvent acrylic pressure-sensitive adhesive on one side. These unique films can be laminated to either one or both sides of photographic prints or transparencies to protect, enhance appearance and provide sufficient rigidity to eliminate the need for mounting to traditional flat substrates in many applications. These laminates also retain enough flexibility to allow images to be used in non-flat configurations such as on cylindrical displays. This feature also permits the laminate to be rolled for easy transport or storage.

PERMAFLEX 6200

- is a 125 μ clear matt polycarbonate film with a textured lustre finish that helps eliminate glare and provides a very unique and pleasing finish.
- not only provides protection from abrasion and moisture; it also helps retard colour fade caused by ultraviolet light exposure.
- does not influence the pH level of substrate to which it is applied.
- is approved by « ASTM Friction Test » for slip resistance.

PHYSICAL PROPERTIES

	<u>Typical values</u>	<u>Test method</u>
Quick Tack on glass (N/25mm)	25	FTM 9
Peel 180°C on glass (N/25mm)		
20 min	25	FTM1 (ASTM D903-49)
24 hours	28	FTM1 (ASTM D903-49)
Shear on glass	>1000	FTM 8
<i>Values given are typical and are not necessarily for use in specifications.</i>		
<u>Release Liner</u> : clear PET film	36 μ m	ISO 536
<u>Thickness</u>		
Film + adhesive (μ)	165	ASTM D 645

HEAT RESISTANCE

Application temperature range : + 5°C to + 50°C
End-use temperature range : - 30°C to + 60°C

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

SHELF LIFE

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

UL REGISTRATION

The « Underwriters Laboratories Inc. » classified **PERMAFLEX 6200** to U.S. and Canadian safety standards as to wall covering surface burning characteristics.

	<u>Applied to inorganic reinforced cement board</u>
Flame spread	10
Smoke developed	60

DURABILITY

PF 6200 will give satisfactory performance :

- up to 2 years when used as vertical display (indoor),
- up to 9 months when used in the production of floor graphics (indoor)
(please refer to MACtac Floor Graphics User Guide).

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.*

On the floor, the graphics can be damaged by heavy-duty equipment. MACtac cannot be held responsible for any damage caused in this way. The durability of a floor graphics also depends on the preparation, application, cleaning, usage conditions and also type of flooring.

RECOMMENDATIONS

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

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 PERMAFLEX film for the application to the printed image.

Storage

MACtac recommends that rolls be stored on end or suspended from the core.

Transport

- allow the maximum amount of time after lamination, preferably overnight, before rolling for transport,
- roll the largest diameter possible, no less than 30 cm diameter,
- roll with the PERMAFLEX to the outside.

Trimming

- allow at least one hour after lamination, 24 hours optimal,
- support the PERMAFLEX fully from below,
- use a very sharp blade at an angle of 45°.

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.