

## **Polar™ Perma Matte 100**

## Technical Data Sheet

### Product Description

Polar™ Perma Matte 100 is a 100µ (4 mil) white matte monomeric PVC film coated on one side with a grey permanent pressure sensitive solvent acrylic adhesive. This is protected by a white 140gsm Kraft paper, coated on both sides with polyethylene and siliconised on the release side .

### Applications

Polar™ Perma Matte 100 is a high quality vinyl that is printable by Solvent, Eco Solvent, Latex and UV inkjet technologies. Ideal for signage and general advertising applications which include POP displays, posters and other exhibition graphics. Intended for primarily indoor use, Polar™ Perma Matte 100 is also suitable for up to 3 years outdoors and can be matched with Drytac's Interlam™ or Protac™ range of overlaminates for maximum durability.

Please note Drytac Europe provides this information as a guideline only, if in any doubt please consult Drytac Europe and carry out relevant tests with samples.

### Product Structure

Film:	100µ White Matte Monomeric PVC
Adhesive:	Grey Permanent Pressure Sensitive Solvent Acrylic
Release Liner:	140gsm White Two Side PE Coated One Side Siliconised

124µ  
(5 mil)

**PDM  
100µ**

### General Properties

Film Thickness	100µ (4 mil)
Adhesive Layer	24µ (1 mil)
Outdoor Durability	3 years (Zone 1, Vertical Exposure - see next page for more info)
Application Temperature	>5°C
Service Temperature Range	-20°C to 65°C
Shelf Life	Use within 1 year after opening original box.
Storage Conditions	15°C to 22°C ; 50 to 55% Relative Humidity

### Process Settings

Roller Laminator	Vacuum Press
Polar™ Perma Matte 100 can be over-laminated with a monomeric Pressure sensitive laminate at 40°C. Please refer to Drytac Interlam™ or Protac™ range of laminates.	n/a

Specifications subject to change without notice.

Published information concerning Drytac products is based upon research which the company believes to be reliable and accurate. Such information is intended only as a guide and is given without guarantees. Purchasers should independently determine, prior to use, the suitability of each material for their specific purpose. Drytac does not accept liability for risks associated with the performance of the materials in application. All Drytac products are subjected to careful quality control throughout the manufacturing process and are sold subject to Drytac standard conditions of sale.

## Outdoor Durability Guidelines

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### Introduction

**The following durability information is given for the unprocessed film only.**

The printing process reduces (sometimes significantly) the overall outdoor durability as all inks will fade when exposed to UV light. This colour change is dependent upon whichever printing technology was used, i.e. solvent, latex or UV as well as the ink load applied. Other conditions will also have an influence on the durability of the ink including, temperature, humidity, pollution levels, altitude and image orientation. For example, printed media positioned south-facing and horizontal in a high temperature, high UV climate would be the worst case scenario and durability would be affected accordingly.

To ensure outdoor durability please refer to Drytac's range of overlaminates (see previous page for specific matched products) these will limit ink fading from UV exposure, in addition to providing the printed image with a protective, easy to clean layer. Within Drytac's range of overlaminates multiple properties are included such as Anti-Graffiti, Dry Erase, Slip Resistant and Fire Certified films.

### Climatic Zones

The climate of a region has a major impact on the outdoor durability of printed images. Therefore each area has been divided into "zones" to reflect the different climatic conditions the printed media will endure.

Zone 1	North Europe, West Europe, Central Europe, East Europe, North America (excluding desert areas of the USA: Arizona, California, Florida, Nevada, Texas, Utah, Mexico)
Zone 2	South Europe, Central & South America, Asia Pacific, Australia (south coastal areas), New Zealand
Zone 3	Greater Middle East (Egypt, Iran, UAE, Saudi Arabia etc.), Africa, Australia (desert areas), USA: Arizona, California, Florida, Nevada, Texas, Utah, Mexico

### Angle of Exposure

The angle of exposure is another factor to consider for printed media externally applied. It is recommended to position printed media vertically as at a non-vertical angle you can expect durability to decrease by up to 60%.

	Zone 1	Zone 2	Zone 3
Vertical Outdoor Exposure	3 years	2 years	1 year

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