



DESCRIPTION

Sihl **Synthetic Outdoor Film 180 matte 3900** is an 8mil asymmetrically coated white matte polypropylene film that is well suited for indoor and outdoor applications (waterproof when used with pigmented inks). Sihl 3900 inkjet coating has been formulated for rapid drying and allows for a high level of color brilliance. The film also has shown a good level of weather resistance without overlamination. Q-U-V (accelerated sunlight and weather testing procedure) testing indicated 3900 would survive approximately 350 hours (equivalent to approximately 6 months outdoors in mid-continental regions) of non-laminated weather resistance testing. 3900 is part of Sihl's WeatherPro™ family of products.

PHYSICAL PROPERTIES

Property	Unit (metric)	Unit (US)	Test Method	Notes
Total weight	150 g/m ²	40 lb.	ISO 536	
Thickness	225 ± 10 µm	8 mil	ISO 534	
Opacity	95%		ISO 2471	

APPLICATIONS

Sihl Synthetic Outdoor Film 180 matte 3900 can be used for indoor and outdoor banners, posters, signs, decals, trade show banners and point-of-purchase displays.

- For wide format full-color inkjet printing
- Indoor and short term outdoor use (without overlamination)
- Designed for water-based dye and pigmented inks

Sihl Synthetic Outdoor Film 180 matte 3900 is waster resistant with pigmented inks only

ADVANTAGES

- Creates durable, photo quality prints
- Perfect for presentation graphics, posters, POP
- No quality loss of print out by high humidity or condensation
- Fast drying
- Waterproof with pigmented inks
- Use of pigmented inks and lamination will increase outdoor image life

LIST OF PRINTERS

Printer	Dye Based Ink	Pigmented Ink
Colorspan	EnduraChrome	PermaChrome
Encad NovaJet Pro 36/50, Pro e 42/60, 500, 600, 700, 800	Encad GS, GA, GX	Encad GO
Epson Pro 7000 / 7500 and 9000 / 9500	Standard	Standard
Hewlett Packard DesignJet 2000/ 3000 series	HP Standard	UV+
Mimaki JV2	-	Standard
Mutoh 4100	Standard	-
Roland HiFiJet	Standard	Standard

Please contact your local Sihl representative for additional information about printer and ink compatibility.

PRINT RECOMMENDATIONS

Converting: The material is converted coated side out.

Printer Settings for optimal print quality: ► Ink limit -> 300%, however, individual results may vary due to printer type, shop conditions and image. ► Paper Type -> Photo Matte Paper/ Photo Matte Film ► Print Mode -> Best ► Resolution -> up to 1440 dpi, however, individual resolution settings may vary due to printer type.

Printer and Ink Compatibility: The material can be printed with most water-based dye and pigmented inks. However, water-resistance will only be achieved with pigmented inks.

FINISHING RECOMMENDATIONS

Lamination: Sihl 3900 can be laminated with most cold laminate materials. When the film is laminated with heavy gauge laminates and either mounted to a board or encapsulated, overlap the image with a 0.25" safe edge of laminate. This will seal the inkjet film, preventing moisture absorption. Use laminates of equal gauge when encapsulating to prevent image curl. Using a laminate will also increase UV stability and prevent colors to fade early.

Mounting: If you need to mount 3900, use pressure sensitive mounting adhesives only.

CONDITION OF USE AND STOCKING

Storage (new and partially used rolls): For quality reasons Sihl 3900 should be stored and converted under conditions of 35-65% relative humidity and at a temperature of 10-30°C.

Storage of open rolls: When an open roll of media is not being used ► remove the roll from the printer ► cover the roll with a plastic bag to protect it from contaminants ► if you are storing it on end, use an end plug and tape down the edge to prevent damage to the edge of the roll ► do not lay sharp or heavy objects on unprotected rolls and do not stack them.

WARRANTY STATEMENT

The following statement is made in addition to all other express or implied warranties, including any implied warranty of merchantability or fitness for a particular purpose: Sihl **Synthetic Outdoor Film 180 matte 3900** is warranted to be free of defects in materials and manufacture and to have the properties stated in Sihl's published product information sheet. Sihl will replace or refund the price of any Sihl materials that do not meet this warranty.

These remedies are exclusive. In no case shall Sihl be held liable for any direct, indirect or consequential damages, including labor or non-Sihl material charges.

Synthetic Outdoor Film 180 matte 3900 is manufactured in Switzerland.

CONTACT INFORMATION

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Sihl Dealer