



DESCRIPTION

SiHL vinyl WF SA 300 matte 3931 is a 3.5mil self-adhesive, monomer-softened, white opaque calendared (non-conformable) PVC film with a matte ink-absorption coating and a permanent self-adhesive backing. On the back, the self-adhesive coating is covered by a white, silicon craft-paper. Excellent for printing flexible, durable signs and banners. Other applications include fleet graphics, peel and stick signage, bumper stickers, trade show graphics and signs.

PHYSICAL PROPERTIES

Property	Unit (metric)	Unit (US)	Test Method	Notes
Vinyl Type				Calendared
Total weight	310 g/m ²	78lb	ISO 536	
Silicon-paper weight	140 g/m ²	37lb	ISO 536	
Thickness (total)	300 µm	11.5 mil	ISO 534	
Thickness (vinyl)	90 µm	3.5 mil	ISO 534	
Opacity	>85%		ISO 2471	
Adhesive Strength V2A*	320 N/m 20 min (glass)	24 hours (glass)	360 N/m	
Bonding temperature	>15 °C			

Release-ability: **Permanent** materials are not designed to be removed. They can be removed, but with great difficulty and likely damage to the substrate. If they are removed, they may leave significantly more than 30% adhesive residue.

APPLICATIONS

SiHL IJS 3931 is suitable to generate monochrome and color presentations on all usual, large-size inkjet plotters and for printing with water-based dye or pigmented inks. With the help of its permanent self-adhesive back, the film may be applied to a large number of suitably smooth surfaces (dirt-and grease-free). Unlike other self-adhesive vinyl, IJS 3931 applies easy to difficult materials such as *Sintra* or *Corplast*. Printing on IJS 3931 is above all suitable for indoor applications. Waterproof prints may be generated with pigmented inks, which are also suitable for short-term outdoor use. Dye based inks may gain some water-resistance but will not be waterproof. The high quality ink-absorption coating allows quick drying while printing. The color-fastness of the prints may be improved by a post-print lamination.
 Life expectancy: ► outdoors: 6 months ► indoors: 9 months

ADVANTAGES

- Warranty for up to 6 months outdoors when used with pigmented inks
- 100% waterproof coating - No lamination required
- Excellent emulsion adhesion makes the image scratch resistant
- Outdoor weather durable
- Compatible with dye or pigmented water-based inks
- Superior image quality in color wide format ink jet printing with a broader color gamut and high ink limit
- Much improved whiteness
- Special permanent self-adhesive backing; does not curl on the edges and is easy to apply on most surfaces

LIST OF PRINTERS

Printer	Dye Based Ink	Pigmented Ink
ColorSpan DM 4000/5000/6000/7000	EnduraChrome	PermaChrome
Encad NovaJet Pro 36/50, Pro e 42/60, 500, 600, 700, 800	Encad GS, GA, GX	Encad GO ink
Epson Pro 7000/ 9000 and 7500/ 9500	Standard	Standard
H.P. DesignJet 1000/ 2000/ 3000/ 5000 series	HP Standard	UV+ ink
Mutoh/ Roland	Standard	Standard
Mimaki	-	Standard
Western Graphtec SignJet	Standard	Standard

PRINT RECOMMENDATIONS

Converting: The material is converted coated side out.

Printer Settings for optimal print quality: ► Ink limit -> 350%, however, individual results may vary due to printer type, shop conditions and image. ► Media Type -> Outdoor Inkjet Vinyl ► Print Mode -> Best ► Resolution -> up to 1440 dpi, however, individual resolution settings may vary due to printer type.

Printer and Ink Compatibility: vinyl WF SA 300 matte 3931 is designed to work with most water-based dye and pigmented inks.

FINISHING RECOMMENDATIONS

Lamination: vinyl WF SA 300 matte 3931 can be overlaminated with most cold laminate materials. When the film is overlaminated 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 an overlaminate film will also increase UV stability and prevent colors to fade early.

Mounting: When mounting to any substrate it needs to be clean and free of dust or any other material that would inhibit the adhesion. When mounting to PVC or other substrates that contain plasticizer, surfaces should be cleaned with denatured alcohol prior to the mounting process. IJS 3931 achieves full adhesion strength after 24hrs.

Separation: Permanent materials are not designed to be removed. They can be removed, but with great difficulty and likely damage to the substrate. If they are removed, they may leave significantly more than 30% adhesive residue.

CONDITION OF USE AND STOCKING

Storage (new and partially used rolls): For quality reasons Sihl vinyl WF SA 300 matte 3931 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 vinyl WF SA 300 matte 3931 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.

Vinyl WF SA 300 matte 3931 is manufactured in Germany.

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