

Advantages

- Specifically designed for UV printing
- Excellent color performance
- Stable size and good weather resistance
- Easy installation, easy remove

Suitable for use on a variety of super wide format inkjet printers of solvent ink, Eco-solvent ink and UV ink

Applications

- Large format glass-wall advertising Graphics

Characteristics

Characteristic	Description
Film	Black & white PVC film
Thickness (Film)	160um±10 um
Adhesive	Solvent removable acrylic pressure sensitive adhesive
Adhesive color	Clear
Coating weight(Dry)	20 g±2 g
Liner	Refined semi-perforated composite pure wood-pulp paper
Weight, liner	170 g±5 g
Application surfaces	Flat
Application substrates	Glass substrate surface
Hole size(Diameter)	1.5 mm
Transmittance	30% and 40%
Application temperature range (air and substrate)	> 10°C

Effective Performance Life

The effective performance life is based on field experience and exposure tests conducted by Harker Lab. When the graphics are processed and used according to the Harker recommendations, they should have the performance life shown in the table below.

The actual performance depends on

- Correct combination of film, ink, overlaminate or clear coat
- Drying methods
- Selection and preparation of the substrate
- Application methods

Conversion

- Cold over laminating
- Mild / Eco solvent inkjet
- UV curable inkjet

Conversion not commended

- Thermaltransfer
- Flat bed cutters
- Water based inkjet
- Electrostatic printing
- Die cutting
- Offset Printing

- Orientation and exposure conditions
- Cleaning methods

Printing with Solvent-Based Inkjet Inks

Always test with your combination of printer and ink prior to commercial use.

Total Ink Coverage

Do not exceed 250% total ink coverage for film OCV16170-UV. Too high a total physical ink amount on the film results in media characteristic changes, inadequate drying, over laminate lifting, and/or poor graphic performance.

To enhance color and protect images against UV radiation and abrasion, QSV-18P is recommended to be over-laminated with Cold over-laminating Film or Clear Coat. Recommend:

Application

- Do not stretch the film during application. If you stretch the film it will tent or lift.
- Obtain pre-qualification from DPI Technical Service before applying to any un-qualification surface.
- keep the consideration in mind:
 - The film becomes less flexible the colder it is.

Maintenance and Cleaning

- Use a cleaner such as the kind used for high-quality painted surfaces. The cleaner must be wet, non-abrasive, without strong solvents, and have a pH value between 3 and 11 (neither strongly acidic nor strongly alkaline.)
- QSV-18P can resist most common cleaning agents, it is recommended to use water to clean.

Shelf Life, Shipping, and Storage

- For unprocessed film, shelf life is 12 months. Store the film in a dry area, in the original container, out of direct sunlight and at less than 24°C
- The printed film has one month shelf life.

Ship the finished graphic lying flat or in a roll. To roll the graphic, roll it film side out onto a core that is 3 inches or larger in diameter. These methods help prevent the film and application tape from wrinkling or popping off the liner.

Product Characteristics

Physical Properties

Features	Test Method	Results
Caliper, face film	GB/T6672	160 micron (µm)
liner	GB4669-1995	170 grams
Perforation diameter		1.5 mm
Transmittance(Open Area)		30%
Dimensional stability	DIN 30646	Max. 0.5 mm
Adhesion, initial	FINAT FTM-1, glass	>4 N/25MM
Adhesion, ultimate	FINAT FTM-1, glass	>5 N/25MM
Release(Perforation)	FINAT-4	7-20 g/inch
Flammability		Self extinguishing
Shelf life	Stored at 24° C/50-60 % RH	12 Months
Outdoor durability		12 Months

Thermal

Application temperature :	+10° C
Temperature range :	-20°+65° C

Chemical

Resistant to most petroleum based oils, greases and aliphatic solvents
 Resistant to most mild acids, alkalies, and salts
 DPI One Way Vision can resist most common cleaning agents, it is recommended to use water to clean

Warranty

The materials are manufactured under careful quality control and are warranted to be free from defect in material and workmanship. Any material shown to our satisfaction to be defective at the time of sale will be replaced without charge. Our aggregate liability to the purchaser shall in no circumstances exceed the cost of the defective materials supplied. No salesman, representative or agent is authorized to give guarantee, warranty, or make any representation contrary to the foregoing.

Durability

The durability is based on Eastern China exposure conditions. Actual performance life will depend on substrate preparation, exposure conditions and maintenance of the marking. For instance, in the case of signs facing north; in areas of long high temperature exposure, in industrially polluted areas or high altitudes, exterior performance will be decreased.

Test Methods :

Dimensional stability:

Is measured on a 150x 150 mm aluminium panel to which a specimen has been applied; 72 hours after application the panel is exposed for 48 hours to + 70C, after which the shrinkage is measured.

Adhesion:

(FTM-1, FINAT) is measured by peeling a specimen at a 180° angle from a stainless steel or float glass panel, 24 hours after the specimen has been applied under standardized conditions. Initial adhesion is measured 20 minutes after application of the specimen.

Flammability:

A specimen applied to aluminium is subjected to the flame of a gas burner for 15 seconds. The film should stop burning within 15 seconds after removal from the flame.

A specimen applied to stainless steel is exposed at high and low temperatures and brought back to room temperature. 1 hour after exposure the specimen is examined for any deterioration. Note: Prolonged exposure to high and low temperatures in the presence of chemicals such as solvents, acids, dyes, etc. may eventually cause deterioration.

Chemical Resistance:

All chemical tests are conducted with test panels to which a specimen has been applied. 72 hours after application the panels are immersed in the test fluid for the given test period. 1 hour after removing the panel from the fluid, the specimen is examined for any deterioration.

Corrosion Resistance:

A specimen applied to aluminium is exposed to saline mist (5% salt) at 35° C. After exposure, the film is removed and the panel is examined for traces of corrosion.

Temperature range: