



TURNING BLAND TO GRAND

Technical Data Sheet

UltraClear PET

Carrier		
Film Type	PET Film with waterproof coating	
Thickness (mil)	4.9 mil	
Gloss	>100	Dr. Lange Reflektometer, 20° measuring angle
Adhesive		
Adhesive Type	Ultra clear silicone adhesive	
Adhesive Strength (90°, gf/in)	>7	ASTM D3759
Release Liner		
Type	Siliconized white PET liner	
Nominal Thickness (mil)	2 mil	
Weight (g/m2)	70	
Other		
Handling/Storage Conditions	18 to 25 C / 64 to 77 F; 40 to 65% relative humidity	
Indoor Conditions for Processing	18 to 25 C / 64 to 77 F; 40 to 65% relative humidity	
End Use Temperature Range	-40 to 65 C / -40 to 149 F	

Advantages / Special Features

- Unique silicone adhesive is both removable and repositionable
- May be reverse printed for inside mounted window advertising
- UltraClear PET can be installed dry, however, a wet-method of installation is recommended to minimize bubbles.

Process & Handling

- To avoid fingerprints, handle the film with cotton gloves when loading and unloading the film on your printer.
- When printing with high ink density, it is not recommended to use the take up reel of your printer.
- Allow prints to dry for 24 hours before lamination and/or installation.
- Profiles can be found at <http://neschen-us.color-base.com>. Check the site for profile availability for your particular printer and RIP software combination. If a profile is not found for your printer and RIP combination, try using a profile for backlit film.
- Prior to application, clean and dry the window, avoiding ammonia based cleaners.

Ink Compatibility	
Solvent	◆
Eco-Solvent	◆
Latex	◆
UV-Curable	◆



For Technical Support with any of our inkjet print materials, please call SEAL Media Support at 800-257-7325, ext 8945.

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Temperatures and thicknesses are given as approximate values. All data are standard values. The information in this specification sheet is based on findings obtained in practice. Because of the high number of factors which can have an effect during handling and application, customer tests will be required. A legally binding guarantee of specific properties is not to be inferred from our specifications. The information given here may be subject to change without notice. SEAL has not prepared MSDSs for these products which are not subject to the MSDS requirements of the Occupational Safety and Health Administration's Hazard Communication Standard, 29 C.F.R. 1910.1200(b)(6)(v). When used under reasonable conditions or in accordance with the SEAL directions for use, these products should not present a health and safety hazard. However, use or processing of the products in a manner not in accordance with the directions for use may affect their performance and present potential health and safety hazards. The purchaser should test material to determine if it is suitable for their own specific purpose.



SEAL UltraClear PET Application Guide

Overview

SEAL UltraClear PET is a 4.9 mil polyester film that is intended for installation indoors on a smooth flat clear surface, such as glass, mirror or acrylic. It is compatible with solvent, eco-solvent, HP latex and UV inks.

Advantages / Special Features

- excellent photorealistic printing quality
- easy to remove
- Ideal for Retail/POP advertising and Architectural Décor.
- mirror- image printing possible for inside mounted window advertising
- long-term removability without loss of adhesion force
- possibility of repositioning & reusing for many times
- quick drying (with normal ink load)
- 100% recyclable and PVC-free

Tips and Tricks

To avoid fingerprints, you should handle the film with cotton gloves when loading and unloading the film on your printer.

If printing with high ink density, it is not recommended to use the take up reel of your printer. Allow prints to dry for 24 hours before lamination and / or installation.

Profiles for the SEAL UltraClear PET film can be found at <http://neschen-us.color-base.com/>. Check the site for profile availability for your particular printer and RIP software combination. If a profile does not exist, try using a profile for backlit film.

Installation Guidelines

Although UltraClear PET can be installed dry, a wet-method of installation is recommended to minimize bubbles.

Recommended Tools

- Spray bottle filled with soapy water solution (1/3 teaspoon of dishwashing liquid to 1 quart of water)
- Nylon or plastic squeegee with low-friction sleeve
- Large rubber window squeegee
- Sharp knife to trim the edges (if necessary)



Surface Preparation

Clean the surface of the glass immediately before applying the film. Any grease, oils or dirt can prevent the film from adhering or leave contaminants that will show after the install. Also, glass surfaces may have a wax or other substance that can interfere with proper adhesion. A mild abrasive cleaner like Soft Scrub can be used to remove the coating if necessary.

The glass surface should be at least 60°F and not in direct sunlight if possible. Direct sunlight or too high of a temperature can cause the soapy water solution used to evaporate too rapidly, and cause the adhesive to stick before air bubbles are removed.

Applying the film

Here are the recommended steps for installing the UltraClear PET film:

1. Spray the window thoroughly with the soapy water solution.
2. Lay the printed film, liner side up on a nearby clean, dry surface. Start removing the liner at one corner, spraying the exposed adhesive as it's removed. Once the liner is completely removed, spray on more solution if necessary until the entire surface is wet.
3. Lift the film up and place the adhesive side against the wet surface of the window. The film should easily slide around as it's floating on a film of soapy water.
4. Position the film in its final location, then with light pressure and the window squeegee, smooth out any wrinkles or bubbles using overlapping strokes from the center of the film out to the edge.
5. The film should then be flat on the window and most of the water should be pushed out.
6. Now, use the small squeegee with the low-friction sleeve and apply firm overlapping strokes from the center to the edge. Each stroke should overlap by 50%.
7. Any small bubbles that remain can be eliminated by puncturing the film at one end of the bubble with an air release tool or pin. Using your thumb, press the trapped air or water toward the hole to allow it to escape.
8. Make sure the film is dry and firmly adhered to the surface before trimming the edges. If the window has a rubber seal around the edge, it is recommended to trim the film 1/8 inch away from the seal to allow for thermal expansion. Note: the film will not adhere to silicon caulking.

Removal

When it's time to remove the film, simply use a fingernail or a knife to lift a corner of the film and remove at as close to a 180° angle as possible.

The film should remove smoothly, in one piece, with no adhesive residue left on the window.



UltraClear PET

External Launch Summary

Technical Specifications

- 4.9 mil polyester film
- Ultra clear silicone adhesive
- Repositionable and removable
- Optically clear
- Designed for use with solvent, eco-solvent, latex and UV-curable inks

Applications

- Architectural design, including glass office partitions
- Window graphics
- P-O-P and retail signage
- Designed for indoor use

Selling Tools

- Sample Rolls
- Sell Sheet
- Application Guide
- Technical Data Sheet
- Printed Samples

<u>Features</u>	<u>Advantages</u>	<u>Benefits</u>
Unique silicone adhesive	Removable and repositionable, with no adhesive residue	Easier to apply and remove than competing products
Direct print media for window graphics and other creative applications	Single layer graphic for customers with white ink print capabilities	Saves time & money. Buy/stock one product for window graphics; run in a single pass, with white ink.
Excellent coating allows for eco-solvent, solvent, latex and UV curable ink printing	Versatile coating works well with virtually any printer on the market	Allows for high ink density and quick drying
White polyester liner	Allows printers to automatically recognize the media when loaded	Prevents image from being positioned incorrectly on the media, or from not recognizing that media is loaded

Pricing & Availability - Product available in November 2013. Pricing is below.

Item Number	Description	Width (IN)	Length (FT)	Pricing
6034241	UltraClear PET	50	98	Call Your Sales Representative for More Information
6034240	UltraClear PET sample roll	25	10	Call Your Sales Representative for More Information

Competition

	Ritrama	Lintec
Product Name	Crystal Cling	Wincos E-1004 RC
Sizes Available	54" x 150'	48" x 164'
Thickness	2 mil	2 mil
Release Liner	Polyester traction back	Clear PET