

# Milano

digital papers & films

## TECHNICAL DATA SHEET



### PANOPROTECT Optically clear vinyl protective film

**Pano Protect** is a glossy optically clear vinyl film designed for over laminating printed media. The product is designed for long-term outdoor, fleet or vehicle marking on flat or lightly curved surfaces. Additional UV protection is built into the over laminating film to help resist color fade caused by ultraviolet light. The perfect clarity (low haze) combined with high UV protection makes **Pano Protect** the perfect match with Pano Rama one way vision window film. In order to protect your perforated window film from dust, humidity or contaminants.

- ✓ Ideal for non-adhesive one way vision media applied to the inside of windows
- ✓ Crystal clear acrylic based transparent adhesive
- ✓ Reduces application and clean-up costs, no residue after removal
- ✓ Excellent resistance against direct sunlight
- ✓ Air permeable and light material
- ✓ Can also be used for non-perforated materials
- ✓ Impressive transparency on image
- ✓ Permits to provide OWV-kits for self-mounting

PRINTER COMPATIBILITY						
Hard Solvent	Eco-Solvent	Latex	UV Curable	Dye Inks	Pigmented Inks	Universal
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#### APPLICATIONS

- ✓ Pano Rama one-way-vision films applied on lightly curved or flat surfaces
- ✓ Especially developed to cover perforated film so that no dust, humidity or other contamination can penetrate the perforation
- ✓ Recommended for applications where the best UV resistance and clarity is required even at extreme conditions

#### AVAILABLE ROLL SIZES

Roll Width	Roll Length	Part Number
60"	100 ft	3401

#### PHYSICAL SPECIFICATIONS

Thickness:	3 mil (75 microns)
Weight of backing:	2 mil (50 microns)
Shrinkage:	0%
Minimum application temperature:	+50°F (+10°C)
Service temperature:	+14° to 230°F (-10°C to 110°C)
Outdoor durability:	3 years in normal conditions
Cohesion:	High
Tack:	Medium
Ultimate adhesion:	High
Chemical resistance:	No effects

#### RECOMMENDATIONS

Please check our Pano Rama application and removal guidelines. Edge protection tape is recommended on vehicle graphics. Windshield wipers may damage/scratch the film. Ensure print is perfectly dry prior to lamination. Slight surface molting may appear in high gloss film while in roll form due to softness of the film itself. This will disappear after one or two days after lamination all by itself. However if waiting is not an option, small amount of heat during lamination process will remove the molting. Use care not to stretch the film during lamination process. Always maintain as little film tension as possible.

Note: You may run conventional heat such as a hair dryer across the laminated print and the molting will disappear instantly. Off-gassing of ink may cause haze effect which lasts for approximately one week on the printed image.