

## Covid Holographic Security Films

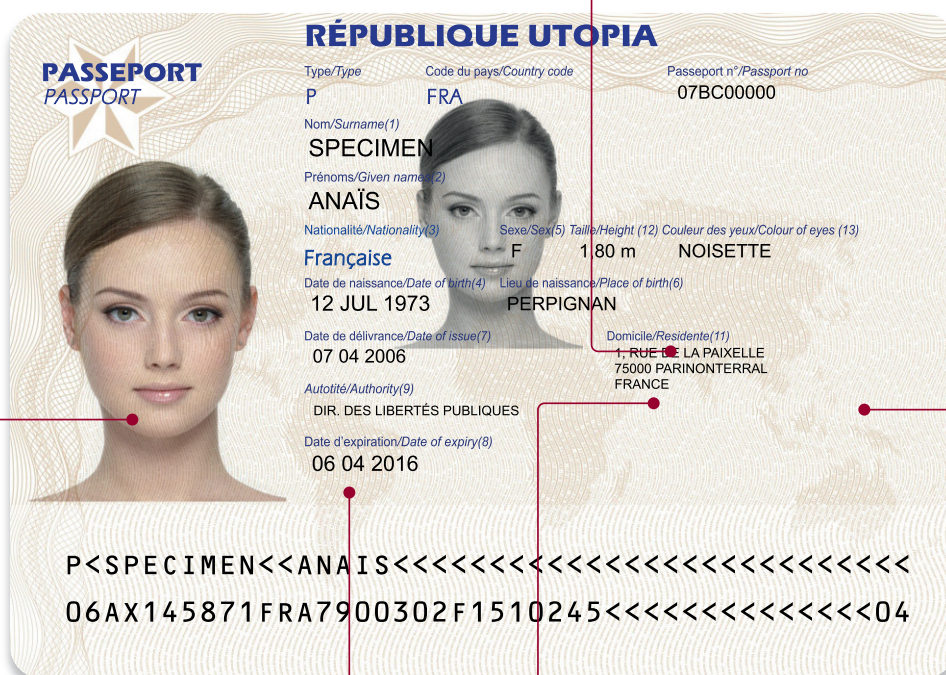
ITW Security Division's Covid Holographic Passport Film provides a thin, protective covering to secure paper passport data pages against alteration. Custom holograms help prevent counterfeiting and aid in the authentication of genuine documents. This film is compatible with a variety of paper-based substrates and is customized to the specific requirements of both the document and the passport manufacturing equipment.

### Line Width Modulation

Created by mathematically manipulating line width, length and height, these highly sophisticated yet easily detected text and image effects provide both overt and forensic authentication capabilities.

### Hybrid Micro Optical Structure

Intentionally manipulating the optical structures that compose the hologram in a predefined, undisclosed area, generates a unique fingerprint (intentional mistake). The location of such a feature is provided on a need-to-know basis, resulting in a very powerful forensic feature.



### Nano Text

Ranging in size from 175 to 40 microns, and visible only through a microscope, diffractive and non-diffractive nano text is used to provide reliable, forensic-level security.

### Stereogram

Constructed from one or more flat, two-dimensional images, stereograms create the optical illusion of depth and movement, providing a barrier to counterfeiting and a visually powerful overt authentication device.

### Single Axis Covert Laser Retrievable (CLR)

This covert device consists of images or characters which are invisible to the human eye, yet easily detected by illuminating the coded area with a simple laser device.

## Advantages

- ✓ Alteration attempts are immediately obvious due to thin surface coatings.
- ✓ Available in sheet and roll formats for manual and machine application.

## Applications

- Emergency Passports
- Passports

# Holographic Passport Film

## General Information

<b>Color</b>	HRI. Custom holographic images only
<b>Film</b>	19, 23, or 37.5 micron PET
<b>Splices</b>	Not Permitted
<b>Labeling</b>	Rolls are identified as per customer requests.
<b>Packaging</b>	Rolls and sheets are wrapped to avoid contamination and secured in close fitting cardboard boxes to avoid damage.
<b>Storage</b>	Product should be transported and stored in dry conditions away from direct heat and sunlight. Optimal storage temperature is 20°C (68°F) at 50% relative humidity. The recommended shelf life is 12 months.
<b>Ordering</b>	Minimum order quantities apply.

## Properties

- ✓ Good scratch and rub resistance
- ✓ Protection from exposure to water and saline
- ✓ Excellent adhesion

ROLLS
PET Layer
Mar Resistant, UV Absorbing Topcoat
Holographic Layer
HRI Layer
Heat Activated Adhesive

SHEETS
Paper Layer
Adhesive Layer
PET Layer
Holographic Layer
HRI Layer
Heat Activated Adhesive

## Technical Characteristics - Card Durability

Properties	Requirement	Result
Coating Thickness	2.7 Micron	Pass
Adhesion to Card, 810 3M Tape	<15% Removal	Pass
Topcoat Flashing	<1mm <sup>2</sup>	Pass
High Temperature/High Humidity Exposure, 95% RH, 50°C, 3 Days	No Bubbles	Pass
Surface Abrasion, Tabor, CS10 500gm	140 Cycles	Pass

SAMPLES: ITW Security Division works with most original equipment manufacturers (OEMs) and understands the product requirements necessary to match each machine. With this in mind, sample product is usually available through the OEMs for product testing.

NOTE: Although the information provided herein is given in good faith and deemed reliable, it is not intended as a warranty. We recommend that customers trial the product in order to determine suitability in the intended application. Please contact your OEM to receive material for trial purposes. ITW Security Division reserves the right to change specifications without notice.