



## Ref. 176360 — White security VOID PET

White security polyester film 38 µm with top coating / A1 water-based permanent acrylic adhesive / super-calendered liner

### DESCRIPTION

Self-adhesive label made of 38 µm white security polyester film with a top coating for printing, designed specifically for tamper-evident labelling: when removal of the label is attempted, the film releases a VOID chequered pattern. The A1 adhesive is a water-based permanent acrylic with medium-high initial tack, high ultimate adhesion, high resistance to sunlight and medium cohesion. The liner is a high-density super-calendered paper with consistent mechanical properties, suitable for automatic labelling and optical reading.

### QUICK SUMMARY

**Facestock:** White security PET with top coating, 38 µm

**Adhesive:** A1 permanent acrylic, water based

**Liner:** High-density super-calendered paper, 78 g/m<sup>2</sup>

**Printing:** Flexo, offset, letterpress, screen and UV inks

#### Key points

- Leaves a VOID pattern if removal is attempted
- Service temperature: -30 to +120 °C
- Minimum application temperature: +5 °C
- Indirect food contact (FDA 175.105)
- Shelf life: 2 years

### KEY ADVANTAGES

- 38 µm white security PET film with top coating: if removal of the label is attempted, it releases a VOID chequered pattern that makes tampering evident.
- A1 water-based permanent adhesive, with medium-high initial tack, high ultimate adhesion and high resistance to sunlight.
- Wide service temperature range: -30 to +120 °C, with a minimum application temperature of +5 °C.
- Suitable for indirect food contact under FDA 175.105.
- Shear resistance of more than 10 hours on stainless steel.
- The top coating allows overprinting by thermal transfer.

### RECOMMENDED APPLICATIONS

- Security labels where visual evidence of tampering is required.
- High-value products or products needing protection against counterfeiting or unauthorised opening.
- Integrity assurance for packaging or product: the label reveals any attempt to peel it off.
- Applications involving indirect food contact.
- Pharmaceutical, consumer electronics, high-value logistics, cosmetics and food sectors.

### PRINTABILITY

Suitable for traditional printing — flexo, offset, letterpress and screen printing — including UV inks. The top coating allows overprinting by thermal transfer. Check the compatibility of the VOID security pattern with the intended final printing method.



## MATERIAL STRUCTURE

| LAYER     | CODE                        | DESCRIPTION                                                                                                                                                                    |
|-----------|-----------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Facestock | PET White Security 36/80 TC | White security polyester film with top coating for printing. When removal of the label is attempted, it releases a VOID chequered pattern. 38 µm and 53 g/m <sup>2</sup> .     |
| Adhesive  | A1                          | Water-based permanent acrylic adhesive. Medium-high initial tack, high ultimate adhesion, high resistance to sunlight and medium cohesion. Suitable for indirect food contact. |
| Liner     | SC 78 paper                 | High-density super-calendered paper. 78 g/m <sup>2</sup> and 68 µm. Suitable for automatic labelling and optical reading.                                                      |

## PHYSICAL PROPERTIES

| PROPERTY                  | STANDARD  | UNITS            | VALUE | TOLERANCE |
|---------------------------|-----------|------------------|-------|-----------|
| Facestock caliper (PET)   | —         | µm               | 38    | —         |
| Facestock substance       | —         | g/m <sup>2</sup> | 53    | —         |
| A1 adhesive coat weight   | FTM 12    | g/m <sup>2</sup> | 17    | ± 2       |
| Liner substance           | ISO 536   | g/m <sup>2</sup> | 78    | —         |
| Liner caliper             | ISO 534   | µm               | 68    | —         |
| Liner tensile strength MD | ISO 1924  | N/cm             | 58    | —         |
| Liner transparency        | DIN 53147 | %                | 37    | —         |
| Liner release             | FTM 3     | g/inch           | 6     | ± 3       |

## MECHANICAL PROPERTIES OF THE ADHESIVE

| PROPERTY                     | STANDARD | UNITS  | VALUE            |
|------------------------------|----------|--------|------------------|
| Shear, stainless steel       | FTM 8    | hours  | > 10             |
| Peel adhesion 180° at 20 min | FTM 1    | N/inch | Not determinable |
| Peel adhesion 180° at 24 h   | FTM 1    | N/inch | Not determinable |
| Quick stick (tack)           | FTM 9    | N/inch | Not determinable |

## WHY THERE ARE NO PEEL VALUES

Peel at 20 minutes and at 24 hours and quick stick cannot be determined on this material: the security structure of the film is destroyed when the label is peeled off — which is precisely its purpose — and does not allow measurement. This is not a missing figure, but a test that does not apply to a tamper-evident facestock.



## TEMPERATURES AND STORAGE

| PROPERTY                        | UNITS | VALUE       | TOLERANCE |
|---------------------------------|-------|-------------|-----------|
| Minimum application temperature | °C    | +5          | —         |
| Service temperature             | °C    | −30 to +120 | —         |
| Storage temperature             | °C    | 20–25       | —         |
| Storage relative humidity       | %     | 40–50       | —         |
| Shelf life                      | years | 2           | —         |

## CERTIFICATIONS AND COMPLIANCE

- Suitable for indirect food contact under FDA 175.105.

## STORAGE AND SHELF LIFE

Two years stored at 20–25 °C and 40–50 % relative humidity, in the original packaging. Do not expose the material to direct sunlight or to heat sources.

## USAGE RECOMMENDATIONS

- Observe the minimum application temperature of the adhesive: +5 °C.
- Check the compatibility of the VOID security pattern with the intended final printing method.
- Keep in the original packaging and do not expose to direct sunlight or heat sources.
- Always run adhesion trials on the final application surface before production.

## IMPORTANT NOTES

- The values given are the manufacturer's typical laboratory values, do not constitute a specification and are subject to change without notice.
- Users should run their own trials under the real conditions of application.

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