Ref. A10 — Thermal PP 75

White PP film with thermal coating / A10 water-based permanent acrylic adhesive / super-calendered glassine liner

DESCRIPTION

Self-adhesive label made of white polypropylene film with a thermal coating, designed for direct thermal printing without a ribbon. The A10 adhesive is a water-based permanent acrylic with high initial tack and high ultimate adhesion, which bonds well to cold and damp surfaces. The liner is a high-density super-calendered glassine paper with consistent mechanical properties, suitable for automatic labelling and optical reading.

QUICK SUMMARY

Facestock: White PP film with thermal coating, 75 µm

Adhesive: A10 permanent acrylic, water based

Liner: High-density super-calendered glassine, 61 g/m²

Printing: Direct thermal, without ribbon

Key points

- Service temperature: −15 to +60 °C
- Minimum application temperature: −10 °C
- Bonds to cold and damp surfaces
- Adhesive suitable for direct food contact
- Shelf life: 2 years

KEY ADVANTAGES

- White PP film with thermal coating (75 µm and 60 g/m²), suitable for direct thermal printing without a ribbon.
- A10 water-based permanent adhesive, with high initial tack (> 17 N/inch) and high ultimate adhesion (> 15 N/inch at 24 h).
- Good water and moisture resistance of the facestock.
- Adhesive suitable for direct food contact.
- Good adhesion to cold and damp surfaces, with a minimum application temperature of −10 °C and service from −15 to +60 °C.
- Super-calendered glassine liner, suitable for automatic labelling and optical reading.

RECOMMENDED APPLICATIONS

- Manufacture of labels for direct thermal printing.
- Labels for environments with water and moisture.
- Applications involving direct food contact.
- High-speed automatic labelling with good optical reading performance.

PRINTABILITY

The thermal coating on the facestock is designed for direct thermal printing, without a ribbon. During production and printing, 50 °C should not be exceeded, to prevent the facestock from blackening. It is not suitable for thermal transfer printing with a ribbon, nor for the other conventional printing methods.

MATERIAL STRUCTURE

LAYER	CODE	DESCRIPTION
Facestock	Thermal PP 75	White polypropylene film with thermal coating. 60 g/m² and 75 µm.
Adhesive	A10	Water-based permanent acrylic adhesive. High initial tack and high ultimate adhesion. Good adhesion on cold and damp surfaces. Suitable for direct food contact.
Liner	—	High-density super-calendered glassine paper. 61 g/m² and 53 µm. Suitable for automatic labelling and optical reading.

PHYSICAL PROPERTIES

PROPERTY	STANDARD	UNITS	VALUE
Facestock substance	ISO 536	g/m^2	60
Facestock caliper	ISO 534	µm	75
A10 adhesive quick stick	FTM 9 (stainless steel)	N/inch	> 17
Peel adhesion 180° at 24 h	FTM 1 (stainless steel)	N/inch	> 15
Liner substance	ISO 536	g/m^2	61
Liner caliper	ISO 534	µm	53

TEMPERATURES AND STORAGE

PROPERTY	UNITS	VALUE	TOLERANCE
Minimum application temperature	°C	−10	—
Service temperature	°C	−15 to +60	—
Storage conditions (FINAT)	—	10–25 °C / 50 % RH	± 5 %
Shelf life	years	2	—

CERTIFICATIONS AND COMPLIANCE

- The A10 adhesive is suitable for direct food contact, according to the data sheet from Roll Cover Italiana s.r.l. (September 2018 revision).
- For other specific manufacturer certificates, such as ISO 14001 or ISO 9001, please refer to the original documentation.

STORAGE AND SHELF LIFE

Two years stored in the original packaging at 10–25 °C and 50 ± 5 % relative humidity. Do not expose the material to direct sunlight or to heat sources. Storage outside these conditions may shorten the shelf life.

USAGE RECOMMENDATIONS

- Do not exceed 50 °C during production and printing, to prevent the thermal facestock from blackening.
- Observe the minimum application temperature of the A10 adhesive: −10 °C.

- Keep in the original packaging, away from direct sunlight and heat sources.
- Check adhesion under the real conditions of the application before series production.
- Contact Lit-Off for reel formats and widths, which are confirmed on order according to the project.

IMPORTANT NOTES

- Users should run their own trials under the real conditions of application.
- The values given are the manufacturer's typical values and are subject to change without notice.

This document is a technical data sheet for commercial use. For any advice on the suitability of the material, please contact us.