

PolyPro 4000D Label

Direct thermal matte polypropylene label with an all-temp acrylic adhesive

Optimal for applications where added durability over paper is needed due to moisture exposure or clean removability is required, Zebra's PolyPro 4000D label delivers. This direct thermal white polypropylene label is engineered to provide high print quality and durability at an economical price. Its all-temperature permanent acrylic adhesive can be applied to surfaces as cold as -40°F/-40° C and meets FDA 175.105 for indirect food contact requirements. It is suitable for fan-folding. And with Zebra's legacy of craftsmanship and durability, you can count on optimized performance – with each and every label. PolyPro 4000D labels are recommended for a wide variety of labeling applications, including cold storage, package labeling and indirect food labeling.



Print Confident. Print Quality. Print Zebra.

Printing supplies can impact everything from printhead lifespan to operational efficiency. That's why we design, produce and rigorously pre-test our own line of thermal printing supplies to ensure consistent, optimized performance. We utilize an ISO 9001 certified, 23-point inspection process and consistent materials to ensure reliable performance from order-to-order. No matter when you order your labels, you can count on the same consistent performance.

Moisture and tear resistant

The polypropylene facesheet will not break down when subjected to moisture. In addition, the material is tear-resistant, which is beneficial for applications requiring the removal of the entire label for replacement with a new label, such as with reusable totes, crates, shelving and more.

Optimized for use with food products and in cold environments

With its all-temperature permanent acrylic adhesive, these labels can be securely applied in temperatures as low as -40°F/-40° C and will remain adhered in temperatures of -65°F to 131°F/-54°C to 55°C, making them perfect for use on assets in cold environments. The adhesive meets FDA 175.105 for indirect food contact and can be applied to shrink wrap and other food packaging.

Customized for your application

Zebra can deliver PolyPro 4000D labels in just about any size, shape or label set configuration to meet the requirements of your application and process. In addition, our flexographic print presses can add pre-printed text, graphics and color.

PolyPro 4000D Label – economical moisture resistant polypropylene label delivering high-quality print, with an all-temp permanent adhesive to meet labeling in cold environments.

For more information, please visit www.zebra.com/barcodesupplies

Specifications

Markets and Applications

Material Construction

| | |
|--------------------------|--|
| Raw Material Number | 65843RM |
| Facestock | Direct thermal matte white polypropylene 2.8 mil/71.1 microns |
| Adhesive | All-temp permanent acrylic adhesive 0.8 mil/20.32 microns |
| Liner | 40 lb/50 gsm semi-bleached kraft liner 2.5 mil/63.5 microns |
| Total Thickness (+/-10%) | 6.1 mil/154.9 microns |
| Environment | Indoor use |

Temperature Performance

| | |
|--|----------------------------------|
| Minimum Application Temperature ¹ | -40° F/-40° C |
| Service Temperature Range ² | -65° F to 131° F/-54° C to 55° C |

Recommended Printers and Ribbons

| | |
|----------|---|
| Printers | Direct thermal printer; use Zebra desktop, industrial and mobile thermal printers for optimal performance |
| Ribbons | N/A |

Adhesive Strength

| | |
|---------------|---------------------------------|
| Corrugate | 5 minute dwell time: 17 oz/in. |
| | 24 hour dwell time: 18 oz/in. |
| Steel | 5 minute dwell time: 49 oz/in. |
| | 24 hour dwell time ³ |
| Polycarbonate | 5 minute dwell time: 57 oz/in. |
| | 24 hour dwell time ³ |
| Polyethylene | 5 minute dwell time: 26 oz/in. |
| | 24 hour dwell time: 46 oz/in. |

Chemical Resistance

| | |
|--------------------|--------------------------|
| Weak Chemicals | |
| Blood | Test in your application |
| Body Fluid | Test in your application |
| Salt Water | Test in your application |
| Water | Test in your application |
| Window Cleaner | Test in your application |
| Moderate Chemicals | |

Regulatory and Compliance

FDA 175.105 for direct contact with dry foodstuffs, or alternatively separated by a functional barrier

Product Performance and Suitability

| | |
|--|--|
| Recommended storage conditions | 6 months duration when stored at 72° F/22° C at 50% RH |
| Expected life span in application ⁴ | Indoor up to 1 year |

Material Testing in End Application

The information contained in this document is to be used for guidance only and is not intended for use in setting specifications. All purchasers of Zebra products shall be solely responsible for independently determining if the product conforms to all requirements of their unique application.

Warranty

Supplies are warranted against defects in workmanship and materials for a period of 1 (one) year from the date of shipment. For the complete warranty statement, please visit www.zebra.com/warranty

Footnotes

1. When the label is applied, the environment and surface should be above this temperature.
2. Following correct application and appropriate dwell time (usually 24hrs) the media will withstand this temperature range.
3. Attraction between adhesive and surface is so great that the facestock rips.
4. Following correct application and appropriate dwell time (usually 24hrs) we expect, but do not warrant, a life span as indicated.

Warehousing

- Cold-storage labeling
- Package labeling

Other

- Indirect food labeling

Chemical Resistance

| | |
|-------------------|-----------------|
| Alcohol | Not recommended |
| Ammonia | Not recommended |
| Bleach | Not recommended |
| IPA | Not recommended |
| Harsh Chemicals | |
| Gasoline | Not recommended |
| Grease | Not recommended |
| Oil | Not recommended |
| Extreme Chemicals | |
| Acetone | Not recommended |
| IR Reflow | Not recommended |
| MEK | Not recommended |
| TCE | Not recommended |
| Xylene | Not recommended |



NA and Corporate Headquarters
+1 800 423 0442
inquiry4@zebra.com

Asia-Pacific Headquarters
+65 6858 0722
contact.apac@zebra.com

EMEA Headquarters
zebra.com/locations
contact.emea@zebra.com

Latin America Headquarters
zebra.com/locations
la.contactme@zebra.com