

PolyPro 4000D-E

Direct thermal PolyPro label that can be recycled along with PE flexible packaging

Polyethylene (PE) mailing envelopes, or flexible mailers, are very common in e-commerce and small-item shipping. Currently, those mailers are not recyclable in the PE recycling stream. The label and the adhesive contaminate the recycling stream unless the label is removed before recycling. The labels are hard to remove, frustrating environmentally conscious end-users that want to recycle as much as possible. The PolyPro 4000D-E solves this problem, by featuring a combination of facestock and adhesive specially formulated to meet The Association of Plastic Recyclers (APR) requirements. When using the PolyPro 4000D-E, consumers can confidently recycle polyethylene packaging without the need to remove the label, therefore speeding up operations and increasing green initiatives.



Moisture and tear-resistant

The polypropylene facestock will not break down when exposed to moisture and is tear-resistant. The PolyPro 4000D-E label is suitable for use on packaging in e-commerce, food labeling and cold storage labeling.

Direct thermal material

The direct thermal white polypropylene is engineered to provide high print quality and durability at an economical price. Its all-temperatures permanent acrylic can be applied to surfaces as cold as -65°F/-54°C. It meets FDA 175.105 standard for indirect food contact requirements.

Achieve your environmental goals

The PolyPro 4000D-E facestock and adhesive is specially formulated to meet APR (The Association of Plastic Recyclers) requirements for recycling with flexible PE plastics. It helps companies and end-users achieve their environmental goals.

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.

Customized for your application

Zebra can deliver PolyPro 4000D-E 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-E Label – Direct thermal PolyPro label that can be recycled along with PE flexible packaging. For more information, please visit www.zebra.com/barcodesupplies

Specifications

Material Construction	
RM#	10035972RM
Facestock	White Direct Thermal Coated Polypropylene (3.0 mils)
Adhesive	Permanent Acrylic Adhesive (0.8 mils)
Liner	40 lb. semi-bleached kraft stock (2.4 mils)
Environment	Indoor use; cold temperature compatible
Temperature Performance	
Minimum Application Temperature	-20°F/-29°C
Service Temperature Range	-65°F to +140°F (-54°C to 60°C)
Adhesive Strength	
Corrugate	5 minute dwell time: 14 oz/in. 24 hour dwell time: 21 oz/in.
Steel	Not Tested
Polycarbonate	5 minute dwell time: 31 oz/in. 24 hour dwell time: 58 oz/in.
Polyethylene	5 minute dwell time: 26 oz/in. 24 hour dwell time: 37 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	Not Recommended
Moderate Chemicals	
Alcohol	Not Recommended
Ammonia	Not Recommended
Bleach	Not Recommended
IPA	Not Recommended
Harsh Chemicals	
Gasoline	Not Recommended
Grease	Not Recommended
Extreme Chemicals	
Acetone	Not Recommended
IR Reflow	Not Recommended
MEK	Not Recommended
TCE	Not Recommended
Xylene	Not Recommended

UL/cUL Certified Materials with this Ribbon	
List materials with a common between them	None
Regulatory	
EC 1935/2004, EU 10/2011 and BfR Recommendation XIV for direct contact with dry and moist, non-fatty foodstuffs FDA 175.105 for direct contact with dry foodstuffs, or alternatively separated by a functional barrier BPA and latex free	
Product Performance & Suitability	
Recommended storage conditions	1 year duration when stored at 68°F to 77°F/20°C to 25°C at 40 to 50% RH
Expected life span in application	Indoor use, for 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. All products should be pre-tested to ensure they meet all intended requirements of specific end-use applications.	
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: zebra.com/warranty .	

Markets and Applications

- E-commerce mailing labels
- Food labeling
- Cold storage labeling



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