



ZEBRA

8000T Low-Temp Matte

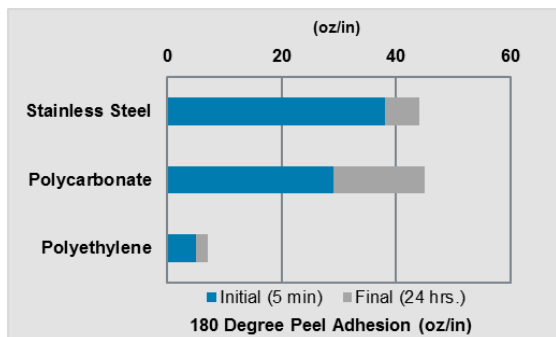
FEATURES

- Thermal transfer, matte polyolefin label with a cold-temp permanent acrylic adhesive
- Offers -112° F performance for low-temperature use; provides resistance to repeated freeze and thaw cycles
- Some smear/scratch and chemical resistance
- Very good resistance to dirt, blood, and water
- Excellent conformability to tight diameters
- Available in white (05227RM)

MATERIAL CONSTRUCTION

| Component | Description | Caliper |
|--------------------|-----------------------------------|----------------|
| Facestock | White corona-treated polyolefin | 3.5 mil |
| Adhesive | Permanent, acrylic-based | 0.8 mil |
| Liner | 50 lb. semi-bleached, kraft stock | 3.2 mil |
| TOTAL ± 10% | | 7.5 mil |

ADHESIVE STRENGTH



TEMPERATURE PERFORMANCE

| Minimum Application Temperature | Service Temperature | Optimal Storage Conditions |
|---------------------------------|-------------------------------------|----------------------------|
| 50° F (10° C) | -112° F to 200° F (-80° C to 93° C) | 72° F (22° C) at 50% RH |

Expected Exterior Life

1 year

CHEMICAL RESISTANCE

| Chemical | Suggested Ribbon | | |
|----------|------------------|------|----|
| | 6100 | 3200 | |
| Weak | Blood | ● | ● |
| | Body Fluid | ● | ● |
| | Salt Water | ● | ● |
| | Water | ● | ● |
| | Window Cleaner | ● | ● |
| Moderate | Alcohol | ● | ● |
| | Ammonia | ● | ● |
| | Bleach | ● | ● |
| | IPA | ● | ● |
| Harsh | Gasoline | ● | ● |
| | Grease | ● | ● |
| | Oil | ● | ● |
| Extreme | Acetone | NR | NR |
| | IR Reflow | NR | NR |
| | MEK | NR | NR |
| | TCE | NR | NR |
| | Xylene | NR | NR |

● Recommended ● Test in Your Application NR Not Recommended

SUGGESTED APPLICATIONS

- Medical labs



- Hospitals



- Cold temp industrial/manufacturing applications



All products should be pre-tested to ensure it meets all intended requirements of specific end-use applications.

For more information, visit www.zebra.com/supplies

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Cold Temperature Testing Results:

| Condition | Adhesive Durability | Maximum Flagging | Print Quality | Peel from vial (avg. oz/in) |
|-----------------------|---------------------|------------------|---------------|-----------------------------|
| Room temperature | No Change | 1mm | No Change | 31 |
| Thermal Cycled Labels | No Change | 1mm | No Change | 26 |

Test Procedure:

Thermal cycled samples went through six freezing (-80C+/-4C for 22 hours) and thawing (23 C +/- 2C) cycles. At the appropriate time, they were pulled every cycle for immediate inspection and one-hour room temperature testing. They were returned to the freezer two hours after being pulled for evaluation.

Cryogenic Vials:

5ml cryogenic vials from Nalgene Cryoware Catalog #5000-0050, Lot#311770 Vials filled with 2.5 ml of saline solution and capped.

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