



**ZEBRA**

# Z-Endure™4000T

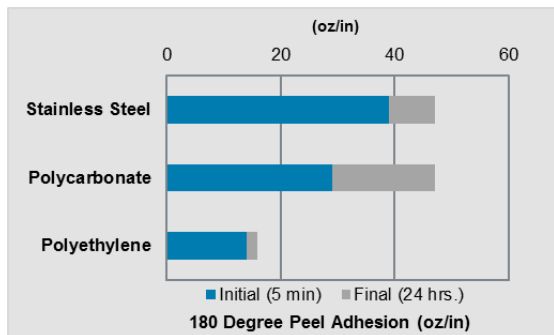
## FEATURES

- Thermal transfer, acrylic label with a permanent acrylic adhesive
- Excellent smear/scratch resistance
- Excellent durability and chemical resistance
- Special acrylic film offers 10 year outdoor durability
- Available in white (05827RM)

## MATERIAL CONSTRUCTION

| Component          | Description                       | Caliper        |
|--------------------|-----------------------------------|----------------|
| Facestock          | White coated acrylic film         | 2.0 mil        |
| Adhesive           | Permanent, acrylic-based          | 0.8 mil        |
| Liner              | 50 lb. semi-bleached, kraft stock | 3.2 mil        |
| <b>TOTAL ± 10%</b> |                                   | <b>6.0 mil</b> |

## ADHESIVE STRENGTH



## TEMPERATURE PERFORMANCE

| Minimum Application Temperature | Service Temperature                    | Optimal Storage Conditions |
|---------------------------------|--|----------------------------|
| 50° F (10° C)                   | -40° F to 212° F<br>(-40° C to 100° C) | 72° F (22° C)<br>at 50% RH |

## SUGGESTED APPLICATIONS

- Outdoor tools/ equipment



## Expected Exterior Life

10 years

## CHEMICAL RESISTANCE

|          | Chemical       | Suggested Ribbon |      |      |
|----------|----------------|------------------|------|------|
|          |                | 6200             | 5095 | 5100 |
| Weak     | Blood          | ●                | ●    | ●    |
|          | Body Fluid     | ●                | ●    | ●    |
|          | Salt Water     | ●                | ●    | ●    |
|          | Water          | ●                | ●    | ●    |
|          | Window Cleaner | ●                | ●    | ●    |
| Moderate | Alcohol        | ●                | ●    | ●    |
|          | Ammonia        | ●                | ●    | ●    |
|          | Bleach         | ●                | ●    | ●    |
|          | IPA            | ●                | ●    | ●    |
| Harsh    | Gasoline       | ●                | ●    | ●    |
|          | Grease         | ●                | ●    | ●    |
|          | Oil            | ●                | ●    | ●    |
| Extreme  | Acetone        | NR               | NR   | NR   |
|          | IR Reflow      | NR               | NR   | NR   |
|          | MEK            | NR               | NR   | NR   |
|          | TCE            | NR               | NR   | NR   |
|          | Xylene         | NR               | NR   | NR   |

● Recommended ● Test in Your Application NR Not Recommended

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

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NA and Corporate Headquarters | +1 800 423 0442 | [inquiry4@zebra.com](mailto:inquiry4@zebra.com)

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## QUV Weathering Machine Testing

Samples were printed with Zebra 5095 and 5100 ribbons and applied to aluminum panels at room temperature. Samples were subjected to QUV Weathering Machine Cycles which alternate between 8 hours UV at 60°C, 4 hours condensation at 50°C. After simulating 10 years\* of outdoor exposure, the following results were noted.

| Adhesive Durability | Facestock Appearance | Print Quality | Facestock Degradation (Chalking, cracking, shrinkage, etc.)         |
|---------------------|----------------------|---------------|---|
| No Change           | No Change            | No Change     | None observed at 5,000 hours. Very slight chalking at 10,000 hours. |

\*One year of Southern Florida exposure is approximated by 1000 hours in the QUV with above cycles.

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