



Label & Label Location of Tag



ID Label Material: Thermal transfer, acrylic label with a high-performance **permanent** acrylic adhesive

Sincerely,

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Z-Endure™4000T

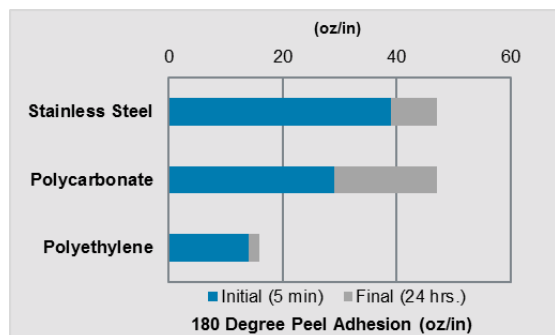
FEATURES

- 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
TOTAL ± 10%		6.0 mil

ADHESIVE STRENGTH



TEMPERATURE PERFORMANCE

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

Expected Exterior Life

10 years

CHEMICAL RESISTANCE

		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

SUGGESTED APPLICATIONS

- Outdoor tools/equipment



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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Z-Endure™4000T

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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ZEBRA

5095 Performance Resin Ribbon

Our performance resin ribbon formulation produces images resistant to most harsh environments: smearing, moisture, abrasion, extreme temperature and chemicals when printed on Zebra® synthetic label and tag materials.

UL/ cUL Certifications with the following materials:

- Z-Supreme 2000T (UL, cUL)
- Z-Supreme 4000T (UL, cUL)
- Z-Ultimate® 4000T White & Silver (UL, cUL)
- Z--Ultimate® 4000T Removable (UL, cUL)
- Z--Ultimate® 4000T High-Tack (UL, cUL)
- Z--Ultimate® 3000T White & Silver (UL, cUL)
- Z-Ultimate® 2000T White (UL, cUL)
- Z-Xtreme 4000T White & Silver (UL, cUL)
- Z-Xtreme 4000T High-Tack White & Silver (UL, cUL)
- Z-Xtreme 2000T White, Silver & Clear (UL, cUL)
- 8000T Void Matte (UL, cUL)



SUGGESTED APPLICATIONS

- Labels which are repeatedly wand-scanned



- Shelf and scan-pallet labels



- Labels subject to abrasion or friction



- Outdoor labeling applications in extreme environments



- Chemical drum labeling applications



- Labels exposed to water, steam, alkali or acid solutions



TECHNICAL SPECIFICATIONS

Attribute	Specification
Color	Black
Ink Formulation	Resin
Base Film	Polyester
Base Film Caliper	4.5 microns
Total Caliper	6.5 microns \pm 10%
Scanning Capabilities	IR and Visible Light

Recommended Storage Conditions: 72° F (22° C) at 50% RH

Shelf Life 1 year

For testing of this product, please order sample ribbon 05095BK08305.

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

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