

8000T Tuff 190 Tag

Media Type	Label		Film Type	Polyethylene	
	Receipt			Polyolefin	✓
	Tag	✓		Polypropylene	
	Wristband			Polyester	
Material Type	Paper			Polyimide	
	Synthetic	✓		Properties	Cold Temperature
Printing Technology	Direct Thermal (no Ribbon Required)		Deep Freeze		✓
	Thermal Transfer (Ribbon Required)	✓	High Temperature		
Adhesive Type	Permanent		Ultra High Temperature		
	Removable		High Tack		
	No Adhesive	✓	Chemical Resistance		Mild
Finish	Matte	✓	Environment	Indoor	✓
	Gloss			Outdoor	✓

Additional Features

- Wide temperature range including deep freeze
- Designed specifically for outdoor applications
- For harsh weather environments and fade resistance
- Good tear resistance
- Withstands mild solvent exposure
- Excellent moisture resistance, allowing for complete water immersion
- BPA free
- Latex free

Suggested Applications

- Outdoor storage tags for construction materials, wire, cable and fabricated parts
- Self-locking tags for horticultural, greenhouse and nursery use
- Staple-on lumber tags for indoor and outdoor use
- Tagging of water motors and pipes, where full water immersion is required

Technical Specifications

	Description	Caliper
Facestock	182gsm matte white coated polyolefin	178 microns
	Total	178 microns ±10%

Recommended Zebra Printers: Mid-range and high-performance thermal printers

Recommended Zebra Ribbons: 3400, 3200, 4800 (and 5095 on high performance Xi series printers only)

Minimum Application Temperature: N/A
When the label is applied, the environment and surface should be above this temperature

Service Temperature Range: -57°C to 93°C
Following correct application and appropriate dwell time (usually 24hrs) the media will withstand this temperature range

Recommended Storage Conditions: 1 year duration when stored at approx. 22°C, 50% RH
Storage of product before use

Expected Life Span in Application: Indoor use, 1 year+
Outdoor use, up to 1 year
Following correct application and appropriate dwell time (usually 24hrs) we expect, but do not warrant, a life span as indicated

Suggested Ribbons for Applications requiring Chemical Resistance

	Weak					Moderate				Harsh			Extreme				
	Blood	Body Fluid	Salt Water	Water	Window Cleaner	Alcohol	Ammonia	Bleach	IPA	Gasoline	Grease	Oil	Acetone	IR Reflow	MEK	TCE	Xylene
3200	✓	✓	✓	✓	✓	✓			✓								
5095	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓					

“✓” indicates acceptable chemical resistance

3400 and 4800 ribbons will also provide chemical resistance, however require testing in application

Relative Strength Information

Product	Strength
8000T Tuff 190 Tag	✓
8000T Extra Tuff 180 Tag	✓✓
8000T Ultra Tuff 240 Tag	✓✓✓
PolyPro 4000T 216 Tag	✓✓✓✓
Z-Ultimate 4000T 175 Tag	✓✓✓✓✓

Facestock Tensile Strength

- Machine direction: 27 lbs/in
- Cross direction: 28.5 lbs/in

Note: For guidance only, not to be used for setting specifications

Product Performance and Suitability

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.

For testing of this material please order sample roll SAMPLE5025