

## 8000T ESD Gloss

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

### Additional Features

- Specially developed for electrostatic safe applications in accordance with the ESD S11.11 Surface Resistance Test and complies with EIA 541 and EIA 625
- Features special additives in both in the topcoat and adhesive, which minimise electrostatic charge
- Offers good high temperature resistance for demanding applications
- Excellent print quality is achieved with Zebra 4800, 5095 and 5100 ribbons
- Tear and water resistant
- BPA free
- Latex free
- UL approved

### Suggested Applications

- Applications requiring resistance to electrostatic discharge
- Circuit board labelling
- Disk drive labelling
- Other sensitive electronic components

**UL recognised**

UL recognised for use with the following ribbons: 5095, 5100 resin



**Technical Specifications**

	Description	Caliper
<b>Facestock</b>	Gloss white coated polyester	50 microns
<b>Adhesive</b>	Permanent acrylic adhesive	23 microns
<b>Liner</b>	Glassine liner	56 microns
	<b>Total</b>	<b>129 microns ±10%</b>

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

**Recommended Zebra Ribbons:** 4800, 5095, 5100

**Minimum Application Temperature:** 10°C  
When the label is applied, the environment and surface should be above this temperature

**Service Temperature Range:** -40°C to 150°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 21°C at 50% RH  
Storage of product before use

**Expected Life Span in Application:** Indoor use, for 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
<b>5100</b>	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓	✓					

“✓” indicates acceptable chemical resistance

4800 and 5095 ribbons will also provide chemical resistance, however requires testing in application

**180° Angle Peel Adhesion at Room Temperature (N/m):**

Steel		Polycarbonate		Polyethylene	
5 min	24 hr	5 min	24 hr	5 min	24 hr
429	517	319	517	154	176

**ESD Testing**

Electrical Properties	Film Surface	Adhesive Surface
Surface Resistivity* (ohm/sqm)	10 <sup>13</sup>	10 <sup>9</sup>
Static Decay** (V/s)	0.50	100
Peak Voltage** (V)	1360	200
Residual Voltage** (V)	1330	0
Dissipation Time** (s)	60	2.0

\*Surface Resistivity is measured per EOD/ESD S.11.11 (Used Monroe Resistivity Meter Model 272)

\*\*Used Monroe Static Charge Analyzer, Model 276A to measure static decay rate. Ion current is increased until it reaches 70mA.

The peak voltage at 70mA is recorded. After the twenty second charge duration expires, the samples charge dissipation is monitored for sixty seconds. The static decay is defined as the difference in peak and residual voltage as a function of the dissipation time.

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 SAMPLE5076.