

Z-Supreme 4000T Yellow

Permanent labels

Thermal Transfer

Description

An amber polyimide film designed for thermal transfer printing with Zebra printers. Z-Supreme 4000T Yellow media is coated with a high performance, high temperature permanent acrylic adhesive. Together with 5095 and 5100 resin ribbons, this Zebra labelling solution is designed for extremely high temperature and harsh environmental applications.

Suggested Applications

- Printed circuit board applications (top-side and bottom-side labelling)
- · High temperature, harsh environments requiring excellent print quality, durability and label performance
- High-temperature product and asset labelling

Technical Specifications

	Description	Caliper	
Facestock	Amber polyimide film		51 microns
Adhesive	Permanent, acrylic based high-temperature adhesive		36 microns
Liner	65 gsm white glassine liner		59 microns
		Total	146 microns

Recommended Zebra printers: high-performance thermal transfer printers

(testing is strongly recommended on mid-range printers)

Recommended Zebra ribbons: 5095, 5100

Minimum application temperature: 10°C

Service temperature range: -40°C to 575°C (short term)

Recommended storage conditions: One year duration when stored at 21°C

50% RH

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Performance Characteristics

Scannability: Excellent ANSI bar code print quality

Print Quality: Excellent human readable print quality

Print Durability: Excellent Crockmeter durability

500 rubs - no print degradation

Maximum Recommended Print Speed: 50.8mm/sec

High Temperature Testing: Bar code printed labels applied to aluminium panels tested

in muffle furnace. Five minute adhesive dwell time before heat exposure. ANSI grade B before and after exposure, no visible degradation of printed bar code or facestock.

Maximum Heat Resistance:

Temperature	Time	
575°C (1067°F)	30 seconds	
500°C (932°F)	60 seconds	
375°C (707°F)	5 minutes	
325°C (617°F)	30 minutes	
275°C (527°F)	60 minutes	

Solvent Resistance Testing: Z-Supreme 4000T Yellow™ media with Zebra 5100 ribbon

Solvents Tested: IPA (Isopropyl Alcohol) Heptane
Oil (10W-40) Unleaded Gas

Toluene Windex

Water MEK (Methyl Ethyl Ketone)

Test Method: Apply printed samples to stainless steel panels. Put

panels through following cycles:

10 minutes immersed

30 minutes out

Rubbed with standard cloth when wet after immersion Rubbed with standard cloth when dry after immersion

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Thermal Transfer Material Test Results

Solvent	Wet	Dry	
IPA	No effect	No effect	
Oil	No effect	No effect	
Toluene	Ribbon and coating rub off after one cycle	No effect	
Water	No effect	No effect	
Heptane	Some rub off after three cycles	No effect	
Unleaded Gas	Ribbon rub off after three cycles	Coating appears slightly degraded; bar codes show no substantial effect	
Windex	Some ribbon/coating rub off after two cycles	No effect	
MEK	Ribbon and coating rub off after one cycle	No effect	

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 SAM65265.

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