

Thermal Transfer Ribbons

TECHNICAL DATA SHEET



LABELS DIRECT

TR4070 Classic Resin

PRODUCT DESCRIPTION

Our premium resin ribbons provide durable, scratch-resistant images on preprinted or treated label surfaces for your most demanding applications. TR4070 carries widespread agency approval, including meeting the FDA's requirements for indirect food contact. This ribbon contains specially formulated backcoat technology for printhead protection as well as exclusive anti-static properties for easy handling and extra printhead protection. Our TR4070 eliminates the need for overlaminates in most cases.

RECOMMENDED SUBSTRATES

Top-coated vinyl, polyimide, polyesters

PERFORMANCE CHARACTERISTICS

- Halogen-Free
- Eliminates the need for overlaminates in many cases
- Excellent smudge and scratch resistance
- Anti-static for easy handling and extended printhead life
- Specially formulated backcoating for printhead protection
- UL recognized/CSA approved
- Unbeatable edge definition ensuring dark, dense images and improved scan rates

RECOMMENDED APPLICATIONS



AGENCY



ASSET
TRACKING



AUTOMOTIVE



CHEMICAL
DRUM



CIRCUIT
BOARD



ELECTRICAL
COMPONENT



HAZARDOUS



HEALTHCARE



PHARMACEUTICAL



RFID



SECURITY



SHELF

TR4070 Classic Resin

RIBBON PROPERTIES

DESCRIPTION	RESULT	TEST METHOD
Ink	Resin	
Color	Black	Visual
Total Thickness	$6.8 \pm 0.5\mu$	Micrometer
Base Film Thickness	$4.8 \pm 0.3\mu$	Micrometer
Ink Thickness	$2.0 \pm 0.2\mu$	Micrometer
Ink Melting Point	103°C (217°F)	Differential Scanning Calorimeter

DURABILITY OF PRINTED IMAGE

Label Stock: Top-coated Polyester

Print Speed: 6 IPS

DESCRIPTION	RESULT	TEST METHOD
Print Density	> 1.60	Densitometer
Smudge Resistance	A*	Colorfastness Tester - 100 Cycles @ 500 Grams with Cotton Cloth
Scratch Resistance	A*	Colorfastness Tester - 50 Cycles @ 200 Grams with Stainless Steel Pointed Tip

* American National Standard Institute (ANSI) Grade Levels A, B, C, D, and F, where A is excellent, B is above average, C is average, D is below average, and F is poor

CONVERSION CHART

Millimeters (mm) to Inches = $\text{mm} \div 25.4$

Meters (m) to Feet (ft) = $\text{m} \div 0.3048$

C° to F° = $(1.8 \times \text{C}^\circ) + 32 = \text{F}^\circ$

Thousand square inches (MSI) to m² = $\text{MSI} \times 0.645$

Inches to Millimeters (mm) = $\text{Inches} \div 0.03937$

Feet (ft) to Meters (m) = $\text{Feet} \div 3.2808$

F° to C° = $(\text{F}^\circ \div 1.8) - 17.77$

MSI = $\text{m}^2 \div 0.645$

Labels Direct, Inc.

664 Trade Center Blvd.
Chesterfield, MO 63005
Phone Support: 636-458-5156
Toll Free Support: 800-458-5110
Fax: 636-458-5693

The information on this data sheet was obtained in our laboratories. Measured values may vary slightly when tested in a different environment. Information contained within this document is subject to change without notification.

Visit us at
www.labelsdirect.com



LABELS DIRECT