



Thermal Transfer Ribbon Technical Data Sheet

TR4070 Classic Resin

Product Description

DNP 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 DNP's specially formulated backcoat technology for printhead protection as well as DNP's exclusive anti-static properties for easy handling and extra printhead protection. Our TR4070 eliminates the need for overlaminates in most cases.

Recommended Applications



AGENCY



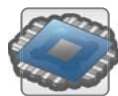
ASSET TRACKING



AUTOMOTIVE



CHEMICAL DRUM



CIRCUIT BOARD



ELECTRONIC COMPONENTS



HAZARDOUS



HEALTHCARE



PHARMACEUTICAL



RFID



SECURITY



SHELF

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
- DNP's specially formulated backcoating for printhead protection
- UL recognized/CSA approved
- Unbeatable Edge Definition™ ensuring dark, dense images and improved scan rates

The information on this data sheet was obtained in DNP IMS America 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.dnpribbons.com

DNP IMS America Corporation

1001 Technology Drive

Mt. Pleasant, PA 15666

TEL: +1.888.569.7222 FAX: +1.800.676.7669

EMAIL: sales_marketing@dnpribbons.com

DNP Global Locations

USA

Japan

Netherlands

Singapore



Thermal Transfer Ribbon Technical Data Sheet

TR4070 Classic Resin

Ribbon Properties

| Description | Result | Test Method |
|---------------------|---------------|-----------------------------------|
| Ink | Resin | |
| Color | Black | Visual |
| Total Thickness | 6.8 ± 0.5μ | Micrometer |
| Base Film Thickness | 4.8 ± 0.3μ | Micrometer |
| Ink Thickness | 2.0 ± 0.2μ | 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 = mm ÷ 25.4 | Inches to Millimeters (mm) = Inches ÷ 0.03937 |
| Meters (m) to Feet (ft) = m ÷ 0.3048 | Feet (ft) to Meters (m) = Feet ÷ 3.2808 |
| C° to F° = (1.8 X C°) + 32 = F° | F° to C° = (F° ÷ 1.8) - 17.77 |
| Thousand square inches (MSI) to m ² = MSI X 0.645 | MSI = m ² ÷ 0.645 |

The information on this data sheet was obtained in DNP IMS America 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.dnpribbons.com

DNP IMS America Corporation

1001 Technology Drive

Mt. Pleasant, PA 15666

TEL: +1.888.569.7222 FAX: +1.800.676.7669

EMAIL: sales_marketing@dnpribbons.com

