



Thermal Transfer Ribbon Technical Data Sheet

R300 General Purpose Resin

Product Description

We have the most elite resin ribbon offering in the industry. R300's extensive label adaptability and high print speed capability makes it the most diverse resin of its kind. It outperforms the competition in abrasion and solvent resistance, uses less print energy and is designed with standard anti-static and backcoat properties to protect printheads and extend printhead life. And, like all of our ribbons, R300 is an industry leader in edge definition producing dark, dense images for improved scan rates.

Recommended Applications



AGENCY



ASSET TRACKING



AUTOMOTIVE



CHEMICAL DRUM



ELECTRONIC COMPONENT



EXTREME ENVIRONMENT



FLEXIBLE PACKAGING



HAZARDOUS



OUTDOOR



PHARMACEUTICAL



PRODUCT ID



RFID



SECURITY



SHELF

Recommended Substrates

Polypropylene, polyethylene, polyolefin, vinyl, polyester

Performance Characteristics

- Excellent print quality at high speeds using less print energy
- Extreme durability and solvent resistance
- Extensive label adaptability expanding application options
- UL recognized/CSA approved
- Unbeatable edge definition for dark, dense images and improved scan rates
- Specially formulated backcoating for printhead protection
- Most economical resin with unmatched abrasion resistance
- Anti-static for easy handling and extended printhead life

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Ribbon Properties

| Description | Result | Test Method |
|---------------------|--------------|-----------------------------------|
| Ink | Resin | |
| Color | Black | Visual |
| Total Thickness | 6.0 ± 0.5μ | Micrometer |
| Base Film Thickness | 4.8 ± 0.3μ | Micrometer |
| Ink Thickness | 1.2 ± 0.2μ | Micrometer |
| Ink Melting Point | 86°C (187°F) | Differential Scanning Calorimeter |

Durability of Printed Image

Label Stock: Top-coated Polyester

Print Speed: 6 IPS

| Description | Result | Test Method |
|--------------------|--------|--|
| Print Density | > 1.80 | 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 our laboratories. Measured values may vary slightly when tested in a different environment. Information contained within this document is subject to change without notification.

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