



## Thermal Transfer Ribbon Technical Data Sheet

### R510W Durable White Resin

#### Product Description

DNP's R510W Durable White Resin offers the same incredible durability as R510 Ultra Durable Resin. This ribbon has DNP's unmatched scratch and solvent resistance and has been designed with DNP's specially formulated backcoat technology for printhead protection. Like all DNP ribbons, R510W is an industry leader in Edge Definition™ for clean, extremely durable, and dense bar codes.

#### Recommended Applications



AGENCY



ELECTRONIC COMPONENT



FLEXIBLE PACKAGING



GENERAL



RETAIL



SHELF



SIGNAGE



SNACK FOOD

#### Recommended Substrates

PVC shrink tubing, matt/gloss silver polyester, chrome polyester, clear polyester

#### Performance Characteristics

- Smudge and scratch resistant
- Resistant to ethanol and isopropanol
- DNP's specially formulated backcoating for printhead protection
- UL recognized
- Industry leading in Edge Definition™ for clean, durable, and dense bar codes

*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.*



Registered to  
ISO 9001  
REV 3-24-09

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#### Ribbon Properties

| Description         | Result       | Test Method                       |
|---------------------|--------------|-----------------------------------|
| Ink                 | Resin        |                                   |
| Color               | White        | Visual                            |
| Total Thickness     | 9.3 ± 0.5μ   | Micrometer                        |
| Base Film Thickness | 4.8 ± 0.3μ   | Micrometer                        |
| Ink Thickness       | 4.5 ± 0.2μ   | Micrometer                        |
| Ink Melting Point   | 96°C (205°F) | Differential Scanning Calorimeter |

#### Durability of Printed Image

Label Stock: PVC Shrink Tubing

Print Speed: 6 IPS

| Description   | Result | Test Method  |
|---------------|--------|--------------|
| Print Density | < 0.30 | Densitometer |

#### 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 <sup>2</sup> = MSI X 0.645 | MSI = m <sup>2</sup> ÷ 0.645                  |

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