

# R510



### **Thermal Transfer Ribbon Technical Data Sheet**

## **R510** Ultra Durable Resin

### **Product Description**

Our R510 ribbon has no substitute — it is the toughest resin ribbon on the market. R510 is the only resin ribbon capable of handling extreme environmental labeling with our unmatched scratch and solvent resistance. Designed with our standard anti-static and backcoat properties to protect the printhead, R510 has unbeatable Edge Definition<sup>™</sup> for crisp, extremely durable, and dense harsh environmental bar codes.

### **Recommended Applications**







ALITOMOTIVE









HAZARDOUS

HEALTHCARE









**Recommended Substrates** 

Top-coated vinyl, polyimide, polyesters, PVC cards, PET cards

#### **Performance Characteristics**

- Toughest resin ribbon on the market
- · Unmatched in abrasion and solvent resistance
- UL recognized & CSA approved
- High density printing ensuring Edge Definition™
- Anti-static for easy handling and extended printhead life
- Also available in white and silver

THE AMERICAS

DNP's specially formulated backcoating for printhead protection



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

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### **Ribbon Properties**

Result	Test Method
Resin	
Black	Visual
7.5 ± 0.5µ	Micrometer
$4.8 \pm 0.3 \mu$	Micrometer
2.7 ± 0.2µ	Micrometer
109°C (228°F)	Differential Scanning Calorimeter
	Resin Black 7.5 ± 0.5µ 4.8 ± 0.3µ 2.7 ± 0.2µ

## **Durability of Printed Image**

Print Speed: 6 IPS Label Stock: Top-coated Polyester

Description	Result	Test Method
Print Density	> 1.90	Densitometer
		Colorfastness Tester - 100 Cycles @
Smudge Resistance	A*	500 Grams with Cotton Cloth
Scratch Resistance	A*	Colorfastness Tester - 50 Cycles @ 200 Grams with Stainless Steel Pointed Tip

<sup>\*</sup>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**

THE AMERICAS

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l	Millimeters (mm) to Inches = mm ÷ 25.4	Inches to Millimeters (mm) = Inches ÷ 0.03937
l	Meters (m) to Feet (ft) = $m \div 0.3048$	Feet (ft) to Meters (m) = Feet ÷ 3.2808
ı	C° to F° = (1.8 X C°) + 32 = F°	F° to C° = (F° ÷ 1.8) - 17.77
l	Thousand square inches (MSI) to m <sup>2</sup> = MSI X 0.645	$MSI = m^2 \div 0.645$
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