












Thermal Transfer Ribbon Technical Data Sheet

R390 Near Edge Resin

Product Description

R390 offers the same quality resin printing as the popular R300 for near edge applications. R390 is extremely versatile on a wide variety of substrates and also prints at extremely high speeds for faster turnaround. It outperforms the competition in abrasion and solvent resistance, and 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. Like all DNP ribbons, R390 is the industry leader in edge definition for clean, extremely durable, and dense bar codes.

Recommended Applications

 ASSET TRACKING	 AUTOMOTIVE	 CHEMICAL DRUM	 ELECTRONIC COMPONENT	 EXTREME ENVIRONMENT	 HAZARDOUS	 HEALTHCARE
 HORTICULTURE	 PHARMACEUTICAL					

Recommended Substrates

Synthetic paper, polypropylene, polyethylene, polyolefin, polyester, PVC cards, vinyl, Kimdura®, Valeron®, Polyart®

Performance Characteristics

- Excellent print quality at high speeds
- Increased durability across a wide range of resin applications
- Extensive label adaptability for expanded application options
- Unbeatable edge definition for dark, dense images and improved scan rates
- DNP's specially formulated backcoating for printhead protection
- Anti-static for easy handling and extended printhead life

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

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DNP Global Locations

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Japan
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Singapore



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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



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