

## 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



Automotive



Chemicals



Electronics



Health & Beauty



Outdoor



Pharmaceutical

### Recommended Substrates

Economy Synthetics

Synthetic paper  
Polyethylene  
Polyolefin  
Polyester  
Polypropylene  
Valeron®  
Kimdura®  
Polyart®  
PVC cards  
Vinyl

Specialty Materials

### 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

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



The information on this data sheet was obtained in DNP laboratories. Measured values may vary slightly when tested in a different environment. Information contained within this document is subject to change without notification.