

R550 Extremely Durable Resin

Product Description

R550 is designed for extreme resistance against most chemicals used in the automotive, chemical, pharma, electronics and other industries. Enjoy the benefit of printing extremely small, crisp and clearly readable characters with great precision. Next to its extreme durability, R550 offers a smooth ink transfer at lower heat settings, which makes R550 compatible to a broad range of durable substrates.

Recommended Applications



Automotive



Chemical



Electronics



Health & Beauty



Inventory & Logistics



Outdoor



Pharmaceutical

Recommended Substrates

Economy Synthetics Polyesters, Polypropylene, Polyethylene
Specialty Materials Polyimide
 PVC cards
 PET cards
 Vinyls

Performance Characteristics

- ▶ Heat resistant up to 250°C
- ▶ Unique high abrasion and solvent resistance
- ▶ Excellent readability of small characters
- ▶ High density printing ensuring edge definition
- ▶ Easy to use at medium printer heat settings
- ▶ Anti-static for easy handling and extended printhead life
- ▶ DNP's specially formulated backcoating for printhead protection



for more info!

R550 Extremely Durable Resin

Ribbon Properties

Description	Result	Test Method
Ink	Resin	
Color	Black	Visual
Total Thickness	6.5 ± 0.9µ	Micrometer
Base Film Thickness	4.5 ± 0.4µ	Micrometer
Ink Thickness	2.0 ± 0.5µ	Micrometer
Ink Transfer Temperature	202°C (396°F)	Heat resistance using uncoated tag

Durability of Printed Image

Label Stock: Top-coated Polyester

Print Speed: 4 IPS

Description	Result	Test Method
Print Density	> 2.07	Densitometer
Smudge Resistance	A*	Colorfastness Tester - 400 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 DNP laboratories. Measured values may vary slightly when tested in a different environment. Information contained within this document is subject to change without notification.