

## R410D-White Ultra Opaque White resin

### Product Description

Printing White Opaque variable information on dark labels is always a challenge with thermal transfer. "Pale Grey or Bright White?": most of the durable white ribbons available on the market can never be 100% white. R410D-White is a double layer White + White ribbon that will offer unique opacity to print variable information on dark (even black Polyester) labels or on clear labels applied on dark surfaces.

### Recommended Applications



Electronics

### Recommended Substrates

Economy Synthetics	Polypropylene Vinyl Polyethylene Polyesters
Specialty Materials	PVC cards PET cards

### Performance Characteristics

- ▶ High density
- ▶ Excellent hiding property
- ▶ Excellent scratch resistance
- ▶ Good solvent resistance
- ▶ Anti-static property
- ▶ UL Recognized



for more info!

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### Ribbon Properties

Description	Result	Test Method
Ink	Resin	
Color	White	Visual
Total Thickness	11.2 ± 1.0µ	Micrometer
Base Film Thickness	4.8 ± 0.3µ	Micrometer
Coated Layers	6.4 ± 0.7µ	Micrometer
Ink Melting Point	80°C/90°C (176°F/194°F)	Differential Scanning Calorimeter

### Durability of Printed Image

Label Stock: FLEXCon Thermfilm Black Polyester

Print Speed: 4 IPS

Description	Result	Test Method
Print Density	< 2.11	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.