



## Thermal Transfer Ribbon Technical Data Sheet

### TR3370 High Opacity White Resin

#### Product Description

DNP's opaque white resin, TR3370, was specifically formulated for PVC shrink tubing and is highly resistant to ethanol and isopropanol. This ribbon prints well on black, clear, and silver synthetic substrates and offers superior smudge and scratch resistance as well as durability. TR3370 contains DNP's specially formulated backcoat technology for printhead protection.

#### Recommended Applications



AGENCY



COLOR



ELECTRONIC  
COMPONENT



FLEXIBLE  
PACKAGING



RETAIL



SHELF



SIGNAGE



SNACK FOOD

#### Recommended Substrates

PVC shrink tubing, matt/gloss silver polyester, chrome polyester, clear polyester

#### Performance Characteristics

- Halogen-Free
- An opaque ribbon that prints well on black, clear, and silver synthetic substrates
- Smudge and scratch resistant
- UL recognized
- Resistant to ethanol and isopropanol
- DNP's specially formulated backcoating for printhead protection
- Specially formulated for shrink tubing applications

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**TR3370 High Opacity White Resin****Ribbon Properties**

Description	Result	Test Method
Ink	Resin	
Color	White	Visual
Total Thickness	$9.6 \pm 0.5\mu$	Micrometer
Base Film Thickness	$4.8 \pm 0.3\mu$	Micrometer
Ink Thickness	$4.8 \pm 0.2\mu$	Micrometer
Ink Melting Point	104°C (219°F)	Differential Scanning Calorimeter

**Durability of Printed Image**

Label Stock: PVC Shrink Tubing

Print Speed: 6 IPS

Description	Result	Test Method
Print Density	< 0.35	Densitometer

**Conversion Chart**

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

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.

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  - Hardware disposal
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