

# 130NIR-3 PF DIRECT THERMAL

Specifications may change without notice.  
Last Update: December 2025 PS-2519 (Rev.1)



## PRODUCT FEATURES

130NIR-3 PF is the Phenol-free alternative to our original 130NIR-3 formulation. This top-coated, medium-sensitivity thermal label stock is designed for shipping, logistics, and distribution applications, offering near-infrared readability up to 670 nm for high-resolution imaging and dependable durability.

## APPLICATION AREAS

- Courier

## FACESTOCK PROPERTIES

### Basis Weight

lbs (24 x 36 x 500 sheets)	43.6 ± 4.9
g/sq m	71 ± 8

### Caliper

mil	3.0 ± 0.3
µm	76 ± 7

### Image Density (ODU Minimum)

1.00

### Tear Strength (gf Minimum)

MD	30
CD	35

### Tensile Strength (kgf/15 mm Minimum)

MD	5.4
CD	2.7

### Stiffness (g-cm Minimum)

MD	3.0
CD	2.5

### Initial Activation Temperature

#### (°F / °C)

O.D. = 0.2	212°F / 100°C
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### Effective Activation Temperature

#### (°F / °C)

O.D. = 0.8	243°F / 117°C
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## CERTIFICATIONS

- Indirect Food Contact
- ISO9001
- ISO14001

## REGULATORY



Phenol Free



BPS Free



BPA Free



No Added PFAS

## PRESERVATION PROPERTIES

### Oil Resistance

Image	0.80 Minimum
Background	0.20 Maximum
Test Method	40°C, Dry, 15 Hrs, X-Rite (ODU)

### Moisture Resistance

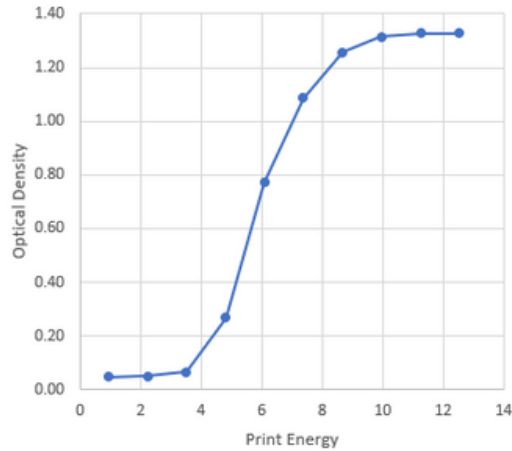
Image	0.50 Minimum
Background	0.20 Maximum
Test Method	40°C, 90% RH, 24 Hrs, X-Rite (ODU)

### Heat Resistance

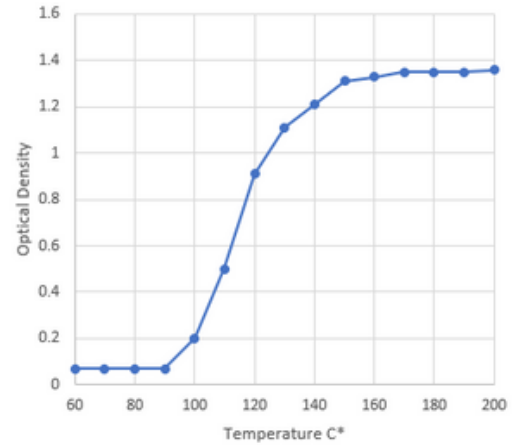
Image	0.80 Minimum
Background	0.20 Maximum
Test Method	80°C, Dry, 1 Hr, X-Rite (ODU)

# 130NIR-3 PF DIRECT THERMAL SENSITIVITY RESULTS

## DYNAMIC SENSITIVITY



## STATIC SENSITIVITY



Sensitivity curves for reference only. Storage Conditions: Below 95°F (35°C) and less than 85% R.H. in a warehouse, avoiding direct sunlight. Dynamic sensitivity tests performed on Markpoint MP104.

## LINER AND ADHESIVE PROPERTIES

**Liner:** 40 lbs (24 x 36 x 500)

**Caliper:** 2.4 mils ± 10% (61 ± 6µm)

**Opacity:** 65% Maximum (Photovolt)

**G25 Adhesive:** Wide Temperature and Permanent

## LAMINATED PRODUCT PROPERTIES

### Application Temperature

°F

### G25

-40 to 122

°C

-40 to 50

### Service Temperature

°F

-65 to 131

°C

-54 to 55

### Basis Weight (24 x 36 x 500)

lbs

93 ± 10

g/sq m

152 ± 17

### Caliper

mil

5.9 ± 0.7

µm

149 ± 17

## CONTACT US

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