

# N140LA DIRECT THERMAL

Specifications may change without notice.  
Last Update: June 2025 PS-1182 (Rev.12)



## PRODUCT FEATURES

N140LA is a medium-sensitivity, top-coated direct thermal label stock designed for high-speed printing applications. It offers exceptional image preservation in diverse environments, making it ideal for weigh scale labels, shipping labels, meat processing, and product identification labels.

## APPLICATION AREAS

- Weigh Scale Labels
- Shipping Labels
- Meat Processing
- Distribution and Inventory
- Product ID

## FACESTOCK PROPERTIES

### Basis Weight

lbs (24 x 36 x 500 sheets)	43.6 ± 4.3
g/sq m	71 ± 7

### Caliper

mil	3.0 ± 0.3
µm	76 ± 7

**Image Density (ODU Minimum)** 1.25

### Tear Strength (gf Minimum)

MD	30
CD	35

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

MD	5
CD	2.5

### Stiffness (g-cm Minimum)

MD	3.0
CD	2.5

### Initial Activation Temperature

(°F / °C)

O.D. = 0.2	198°F / 92°C
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### Effective Activation Temperature

(°F / °C)

O.D. = 0.8	225°F / 107°C
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## CERTIFICATIONS

- Indirect Food Contact
- ISO9001
- ISO14001

## REGULATORY



BPA Free



No Added PFAS

## PRESERVATION PROPERTIES

### Oil Resistance

Image	1.10 Minimum
Background	0.30 Maximum
Test Method	40°C, Dry, 15 Hrs, X-Rite (ODU)

### Moisture Resistance

Image	1.10 Minimum
Background	0.30 Maximum
Test Method	40°C, 90% RH, 24 Hrs, X-Rite (ODU)

### Heat Resistance

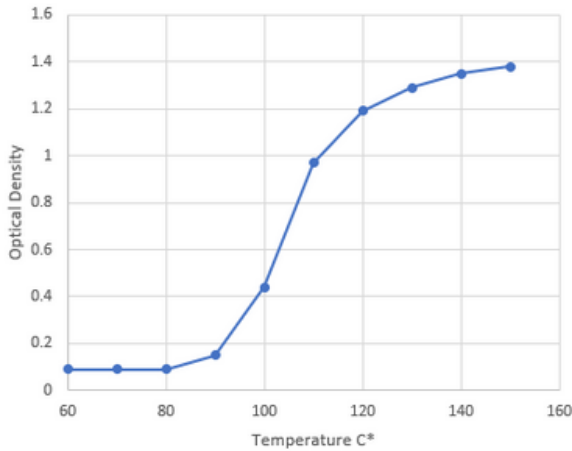
Image	1.10 Minimum
Background	0.30 Maximum
Test Method	80°C, Dry, 1 Hr, X-Rite (ODU)

### Light Resistance

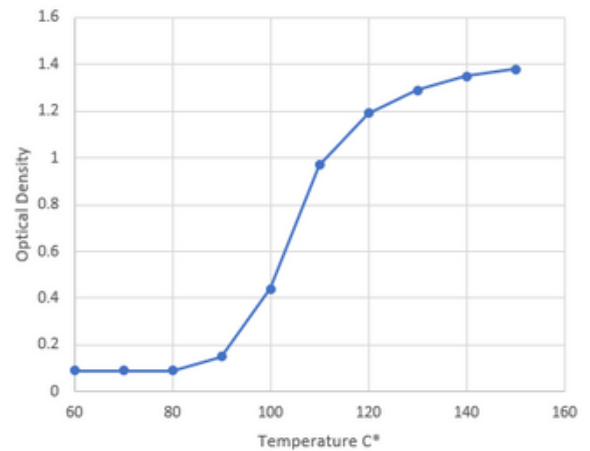
Image	1.10 Minimum
Background	0.30 Maximum
Test Method	5000 lx, 100 Hrs, X-Rite (ODU)

# N140LA 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

**G8 Adhesive:** : Tight Removable

**G22 Adhesive:** Hot Melt for High Moisture Environments

## LAMINATED PRODUCT PROPERTIES

Application Temperature	G25	G8	G22
°F	-40 to 122	10 to 120	28 to 120
°C	-40 to 50	-12 to 49	-2 to 50
Service Temperature			
°F	-65 to 131	-20 to 120	-40 to 122
°C	-54 to 55	-29 to 49	-40 to 50
Basis Weight (24 x 36 x 500)			
lbs	98 ± 12	95 ± 12	101 ± 12
g/sq m	160 ± 19	154 ± 19	164 ± 19
Caliper			
µm	152 ± 18	152 ± 18	157 ± 18
mil	6.0 ± 0.7	6.0 ± 0.7	6.2 ± 0.7

## CONTACT US

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