

# N140LA 50HR G12 DIRECT THERMAL

Specifications may change without notice.  
Last Update: June 2025 PS-2125 (Rev.6)



## PRODUCT FEATURES

N140LA 50HR G12 is a high-sensitivity direct thermal label stock with excellent image durability and a 50 lb. high-release liner. Designed for fan fold labels, it offers superior image preservation in various environments, ensuring reliable performance in demanding applications.

## APPLICATION AREAS

- Fan Fold Labels

## FACESTOCK PROPERTIES

### Basis Weight

lbs (24 x 36 x 500 sheets)	43.6 ± 4.3
g/sq m	71 ± 7
Test Method	TAPPI T-410

### Caliper

mil	3.0 ± 0.3
µm	76 ± 7
Test Method	TAPPI T-411

### Image Density (ODU Minimum)

Test Method	X-Rite Densitometer
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### Tear Strength (gf Minimum)

MD	30
CD	35
Test Method	TAPPI T-414

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

MD	5
CD	2.5
Test Method	TAPPI T-494

### Stiffness (g-cm Minimum)

MD	3.0
CD	2.5
Test Method	TAPPI T-489

## CERTIFICATIONS

- Indirect Food Contact
- ISO9001
- ISO14001

## REGULATORY



BPS Free



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

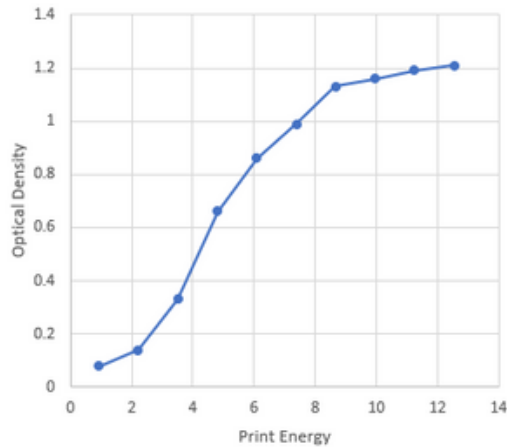
Image	1.10 Minimum
Background	0.30 Maximum
Test Method	80°C, Dry, 1 Hr, X-Rite (ODU)

### Light Resistance

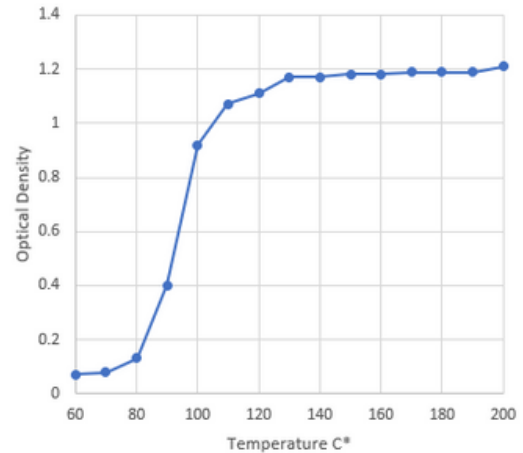
Image	1.10 Minimum
Background	0.30 Maximum
Test Method	5000 lx, 100 Hrs, X-Rite (ODU)

# N140LA 50HR G12 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:** 50 lbs (24 x 36 x 500)

**Caliper:** 2.9 mils ± 10% (75 ± 7µm)

**Opacity:** 80% Maximum (Photovolt)

**G12 Adhesive:** Wide Temperature and Permanent

## LAMINATED PRODUCT PROPERTIES

<b>Application Temperature</b>	<b>G12</b>
°F	-40 to 131
°C	-40 to 55
<b>Service Temperature</b>	
°F	-65 to 131
°C	-54 to 55
<b>Basis Weight (24 x 36 x 500)</b>	
lbs	108 ± 11
g/sq m	176 ± 18
<b>Caliper</b>	
mil	6.7 ± 0.7
µm	169 ± 18

## CONTACT US

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