

N140LA G12H DIRECT THERMAL

Specifications may change without notice.
Last Update: June 2025 PS-2092 (Rev.7)



PRODUCT FEATURES

N140LA G12H is a medium-sensitivity, top-coated direct thermal label stock with a G12H adhesive, offering wide temperature resistance and a permanent bond. Designed for high-speed printing, it ensures exceptional image preservation across 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
- Cold Food Distribution
- Product ID

FACESTOCK PROPERTIES

Basis Weight

lbs (24 x 36 x 500 sheets)	43 ± 5
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	5.0
CD	2.5

Stiffness (g-cm Minimum)

MD	3.0
CD	2.5

Initial Activation Temperature (°F / °C)

O.D. = 0.2	194°F / 90°C
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Initial Activation Temperature (°F / °C)

O.D. = 0.8	221°F / 105°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

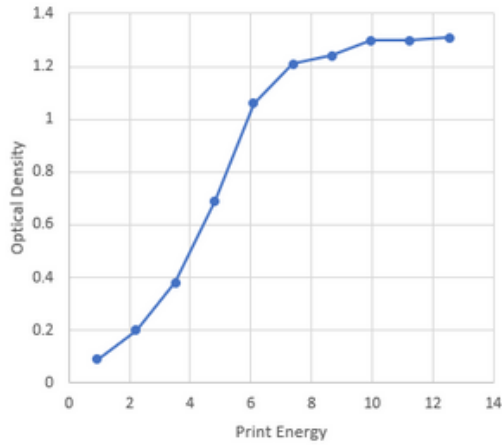
Image	1.10 Minimum
Background	0.30 Maximum
Test Method	80°C, Dry, 1 Hr, X-Rite (ODU)

Light Resistance

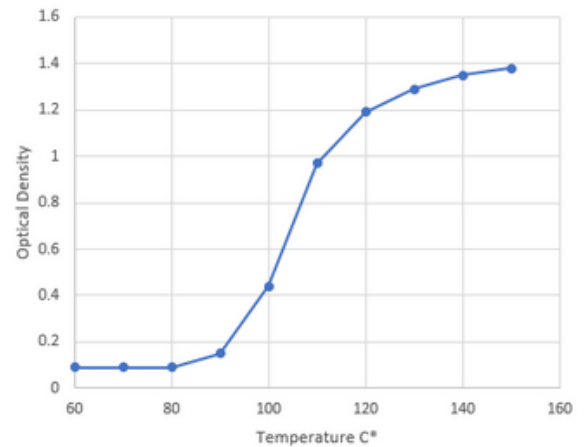
Image	1.10 Minimum
Background	0.30 Maximum
Test Method	5000 lx, 100 Hrs, X-Rite (ODU)

N140LA G12H 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)

G12H Adhesive: Wide Temperature and Permanent

LAMINATED PRODUCT PROPERTIES

Application Temperature

°F

G12H

-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

99 ± 12

g/sq m

161 ± 19

Caliper

mil

6.0 ± 0.7

µm

153 ± 18

CONTACT US

1125 Hurricane Shoals Road,
Lawrenceville, GA 30043

www.REI.Ricoh.com

Email: Orders@rei.ricoh.com

Customer Service:

(800) 843-7059

Toll-Free Fax: (888) 873-7059