

N140 PF RM DIRECT THERMAL

Specifications may change without notice.
Last Update: May 2026 PS-2570 (Rev. 1)



PRODUCT FEATURES

N140PF RM is a high-sensitivity, top-coated direct thermal label stock engineered for retail tote labeling. It delivers excellent image stability and reliable performance in fast-paced distribution and in-store environments. The removable adhesive provides secure adhesion during use while allowing clean removal with minimal residue.

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 (kcf/1.27 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
Effective Activation Temperature (°F / °C)	
O.D. = 0.8	239°F / 115°C

CERTIFICATIONS

- Indirect Food Contact
- ISO9001
- ISO14001

REGULATORY

-  Phenol Free
-  BPS Free
-  BPA Free
-  No Added PFAS

PRESERVATION PROPERTIES

Oil Resistance

Image	1.10 Minimum
Background	0.15 Maximum
Test Method	40°C, Dry, 15 Hrs, X-Rite (ODU)

Moisture Resistance

Image	1.10 Minimum
Background	0.12 Maximum
Test Method	40°C, 90% RH, 24 Hrs, X-Rite (ODU)

Heat Resistance

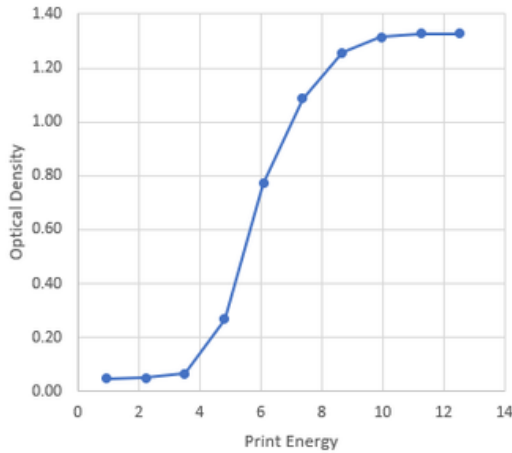
Image	1.10 Minimum
Background	0.30 Maximum
Test Method	80°C, Dry, 1 Hr, X-Rite (ODU)

Light Resistance

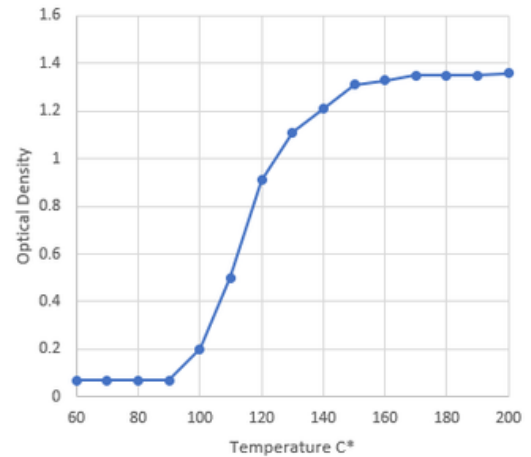
Image	1.10 Minimum
Background	0.15 Maximum
Test Method	5000 lx, 100 Hrs, X-Rite (ODU)

N140 PF RM 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

Caliper: 2.4 mils ± 10% (61 ± 6µm)

RM Adhesive: Clean Removable

Liner: 40 lbs (24 x 36 x 500)

Opacity: 65% Maximum (Photovolt)

LAMINATED PRODUCT PROPERTIES

Application Temperature

°F

RM

40 Min

°C

4 Min

Service Temperature

°F

-22 to 300

°C

-30 to 149

Basis Weight (24 x 36 x 500)

lbs

98 ± 12

g/sq m

160 ± 19

Caliper

mil

6.0 ± 0.7

µm

152 ± 18

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