

# N140 PF PB DIRECT THERMAL

Specifications may change without notice.  
Last Update: February 2025



## PRODUCT FEATURES

N140PF PB is a phenol-free piggyback label stock. This medium-sensitivity direct thermal label stock is engineered for a variety of applications, delivering consistent image quality and reliable performance.

## APPLICATION AREAS

- Shipping Labels
- Distribution and Inventory
- Parts ID and Inventory

## 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 (kfg/15mm 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

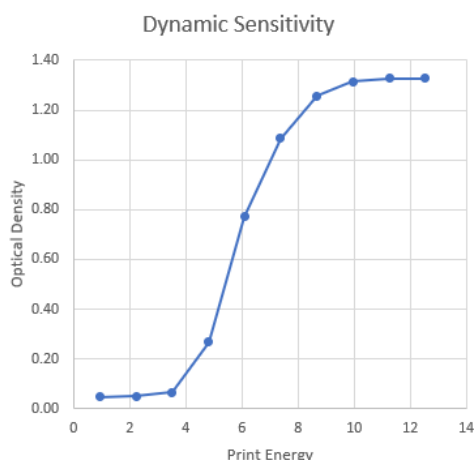
|             |                               |
|-------------|-------------------------------|
| Image       | 1.10 Minimum                  |
| Background  | 0.30 Maximum                  |
| Test Method | 80°C, Dry, 1 Hr, X-Rite (ODU) |

### Light Resistance

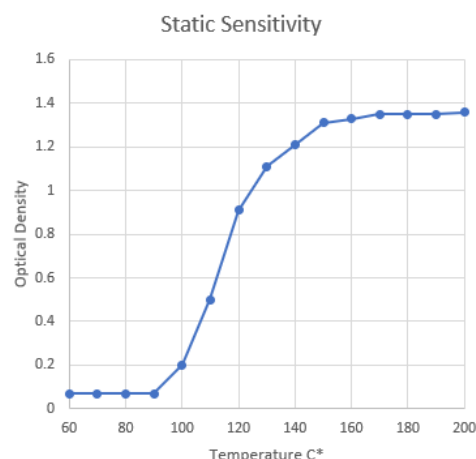
|             |                                |
|-------------|--------------------------------|
| Image       | 1.10 Minimum                   |
| Background  | 0.15 Maximum                   |
| Test Method | 5000 lx, 100 Hrs, X-Rite (ODU) |

# N140PF PB 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  $\pm$  10% (61  $\pm$  6 $\mu$ m)

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

**G12 Adhesive:** Wide Temperature and Permanent

## LAMINATED PRODUCT PROPERTIES

### Application Temperature

°F -40 to 122

°C -40 to 50

### Service Temperature

°F -65 to 133

°C -54 to 55

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

lbs 226  $\pm$  23

g/sq m 139  $\pm$  14

### Caliper

mil 8.4  $\pm$  0.8

$\mu$ m 213  $\pm$  21

## CONTACT US

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