



SPECIFICATION SHEET

This product specification sheet provides the detail to aid you in identifying the most appropriate product type to meet your company's specific requirements. Please direct questions to: Ricoh Customer Service 1-800-843-7058

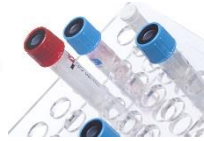
DESCRIPTION

Ricoh's 140LFS is a high sensitivity polypropylene direct thermal film stock with high image durability against most environments.

KEY FEATURES

High sensitivity, high image preservation properties; durable polypropylene base film that is tear and water resistant.

— APPLICATION AREAS —



Airline
Baggage Tags

Meat Processing

Wristbands

Laboratory Labels

Shelf Tags

Weigh Scale Labels

Product ID

FACESTOCK / PRESERVATION PROPERTIES

FACESTOCK PROPERTIES

| ITEM | | UNIT | SPECIFICATION | TEST METHOD |
|----------------------------------|--------------|------------------------|---------------|---------------------|
| Basis Weight | | lbs (24x36x500 sheets) | 40.1± 4.9 | TAPPI T-410 |
| | | g/m ² | 65 ± 8 | |
| Caliper | | mil | 3.1 | TAPPI T-411 |
| | | µm | 80 ± 11 | |
| Image Color | | | Black | Visual Check |
| Image Density | (ODU) | Minimum | 1.30 | X-Rite Densitometer |
| Tensile Strength | MD | kg / mm ² | 6.6 | ASTM D-882 |
| | CD | kg / mm ² | 18.0 | |
| Stiffness | MD | gf-cm Minimum | 3.92 | TAPPI T-489 |
| | CD | gf-cm Minimum | 3.92 | |
| Initial Activation Temperature | (O.D. = 0.2) | °F / °C | 203 / 95 | |
| Effective Activation Temperature | (O.D. = 0.8) | °F / °C | 221 / 105 | |

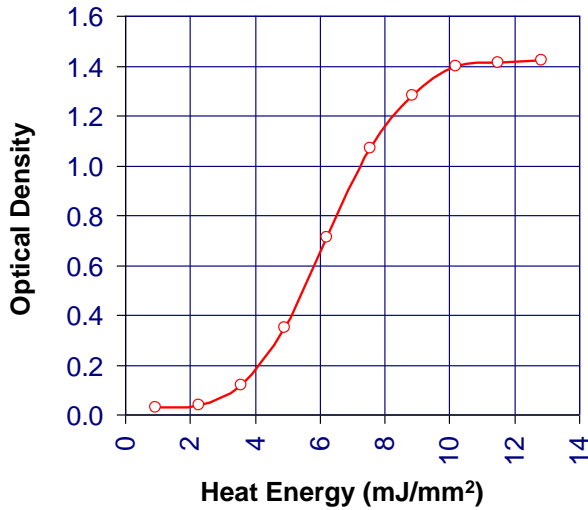
PRESERVATION PROPERTIES

| ITEM | SPECIFICATION | TEST METHOD |
|---------------------|---------------|---------------------------|
| Oil Resistance | Image | 1.20 Minimum |
| | Background | 0.15 Maximum |
| Moisture Resistance | Image | 40° C, Dry, 15 Hours |
| | Background | X-Rite (ODU) |
| Heat Resistance | Image | 1.20 Minimum |
| | Background | 0.20 Maximum |
| Water Resistance | Image | 70° C, Dry, 24 Hours |
| | Background | X-Rite (ODU) |
| Water Resistance | Image | 1.00 Minimum |
| | Background | 0.12 Maximum |
| | | Water Immersion, 15 Hours |
| | | X-Rite (ODU) |

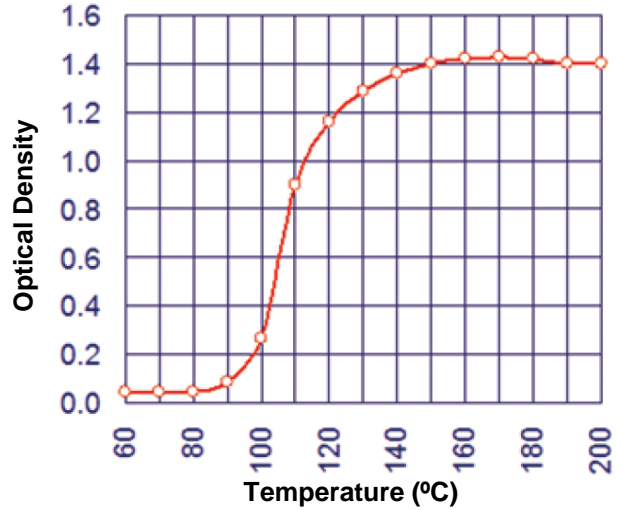


SENSITIVITY RESULTS

Dynamic Sensitivity



Static Sensitivity



Sensitivity curves are for reference only.

Storage Conditions: Below 95°F (35° C) and less than 85% R.H. in a warehouse, avoiding direct sunlight.

Tests performed on Markpoint MP104.

140LFS – LAMINATED PRODUCT

| Grade | Unit | G12 |
|------------------------------|------------------|------------|
| Application Temperature | °F | -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 | 93 ± 11 |
| | g/m ² | 151 ± 18 |
| Caliper | µm | 153 ± 21 |
| | mil | 6.0 ± 0.8 |

Liner: 42 lbs

Caliper: 2.5 mils ± 10% (64 ± 8 µm)

Opacity: 65% Maximum (Photovolt)

Adhesive Attributes:

G12 – Wide Temperature and Permanent

CERTIFICATES / REGULATIONS / DIRECTIVES

BPA Free

BPS Free

ISO9001

ISO14001

Indirect Food Contact

No Added PFAS

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