



# 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 <sup>2</sup>	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 <sup>2</sup>	6.6	ASTM D-882
	CD	kg / mm <sup>2</sup>	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	

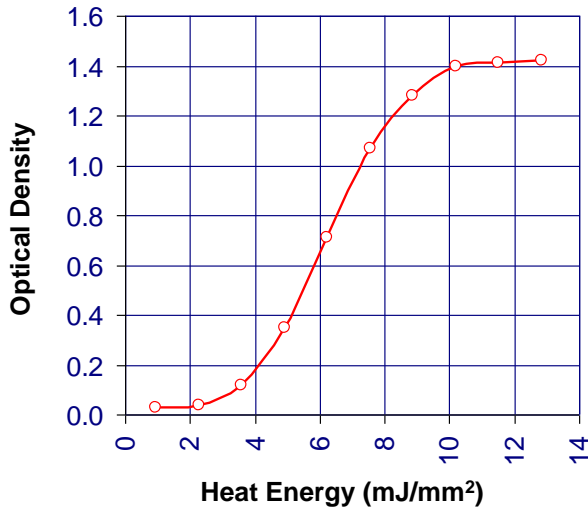
## PRESERVATION PROPERTIES

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)

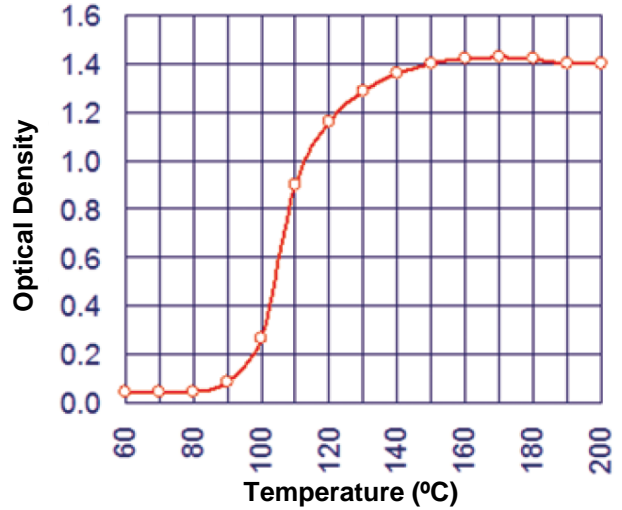


### SENSITIVITY RESULTS

**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
<b>Application Temperature</b>	°F	-40 to 122
	°C	-40 to 50
<b>Service Temperature</b>	°F	-65 to 131
	°C	-54 to 55
<b>Basis Weight (24 x 36 x 500)</b>	lbs	93 ± 11
	g/m <sup>2</sup>	151 ± 18
<b>Caliper</b>	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

ISO9001

ISO14001

Indirect Food Contact

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### CONTACT INFORMATION

**Copyright 2016 Ricoh Electronics, Inc.**  
 1125 Hurricane Shoals Rd.  
 Lawrenceville, GA 30043  
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**Company Info**  
 ISO14001 / ISO9001 Certified

**Customer Service Department**  
 Toll-Free 1-800-843-7058  
 Toll-Free Fax 1-888-873-7059  
 Worldwide Fax +1-714-259-4349  
 Email: orders@rei.ricoh.com