



# 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 140LDS 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 —



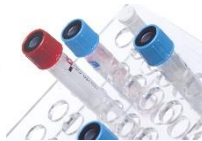
Produce Labels



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)	28 ± 5	TAPPI T-410
		g/m <sup>2</sup>	45.5 ± 8	
Caliper		mil	2.3 ± 0.2	TAPPI T-411
		µm	59 ± 6	
Image Color			Black	Visual Check
Image Density	(ODU)	Minimum	1.30	X-Rite Densitometer
Tensile Strength	MD	kgf/15 mm Minimum	9.0	TAPPI T-494
	CD	kgf/15 mm Minimum	15.0	
Stiffness	MD	g.cm	1.6 min.	TAPPI T-489
	CD	g.cm	1.0 min	
Initial Activation Temperature	(O.D. = 0.2)	°F / °C	212 / 100	
Effective Activation Temperature	(O.D. = 0.8)	°F / °C	239 / 115	

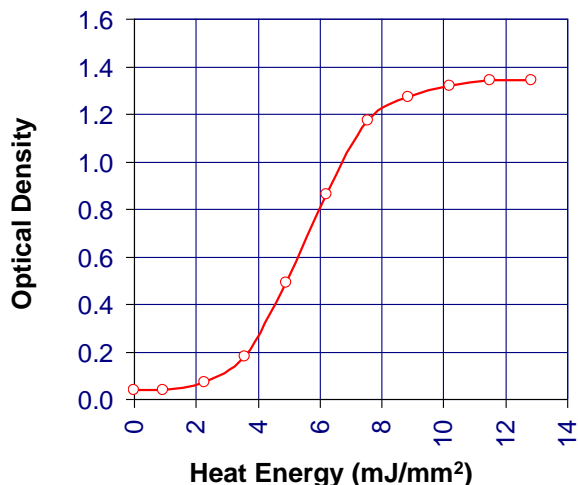
## PRESERVATION PROPERTIES

ITEM	SPECIFICATION		TEST METHOD
Oil Resistance	Image	1.20 Minimum	40° C, Dry, 15 Hours X-Rite (ODU)
	Background	0.15 Maximum	
Moisture Resistance	Image	1.20 Minimum	40° C, 90% RH, 24 Hours X-Rite (ODU)
	Background	0.15 Maximum	
Heat Resistance	Image	1.20 Minimum	70° C, Dry, 24 Hours X-Rite (ODU)
	Background	0.20 Maximum	
Water Resistance	Image	1.00 Minimum	Water Immersion, 15 Hours X-Rite (ODU)
	Background	0.12 Maximum	

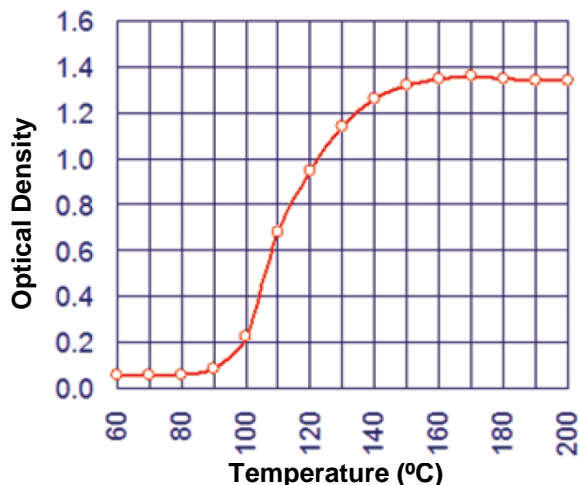


## SENSITIVITY RESULTS

### 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.

## 140LDS – LAMINATED PRODUCT

GRADE	UNIT	G8	G12	G29
Application	°F	10 to 120	-40 to 122	-40 to 122
Temperature	°C	-12 to 49	-40 to 50	-40 to 50
Service	°F	-20 to 120	-65 to 131	-65 to 131
Temperature	°C	-29 to 49	-54 to 55	-54 to 55
Basis Weight	lbs	84 ± 11	83 ± 12	80 ± 12
(24 x 36 x 500)	g/m <sup>2</sup>	137 ± 18	136 ± 19	130 ± 19
Caliper	µm	140 ± 22	140 ± 22	138 ± 22
	mil	5.5 ± 0.9	5.5 ± 0.9	5.4 ± 0.9

Liner: 42 lbs

Caliper: 2.5 mils ± 10% (64 ± 8 µm)

Opacity: 65% Maximum (Photovolt)

**Adhesive Attributes:**

G8 – Tight Removable

G29 – Washable

G12 – Wide Temperature and Permanent

## CERTIFICATES / REGULATIONS / DIRECTIVES

BPA Free

BPS Free

ISO9001

ISO14001

Indirect Food Contact

No Added PFAS

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