



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

135WRx is a medium sensitivity polypropylene direct thermal film stock with image durability that resists solvents and a durable base film for tear resistance.

KEY FEATURES

Medium sensitivity, moderate image preservation properties; resistant to medical solutions; durable polypropylene base film that is tear and water resistant.

— APPLICATION AREAS —



Laboratory Labels



Wristbands



Medical



Shelf Tags



Industrial

FACESTOCK / PRESERVATION PROPERTIES

FACESTOCK PROPERTIES

ITEM		UNIT	SPECIFICATION	TEST METHOD
Basis Weight		lbs (24x36x500 sheets)	30.7 ± 4.9	TAPPI T-410
		g/m ²	50 ± 8.0	
Caliper		mil	2.6 ± 0.3	TAPPI T-411
		µm	65 ± 9.0	
Image Color			Black	Visual Check
Image Density	(ODU)	Minimum	1.25	X-Rite Densitometer
Tensile Strength	MD	kgf/15 mm Minimum	3.8	TAPPI T-494
	CD	kgf/15 mm Minimum	10.0	
Stiffness	MD	gf-cm Minimum	0.98	TAPPI T-489
	CD	gf-cm Minimum	1.76	
Initial Activation Temperature	(O.D. = 0.2)	°F / °C	212 / 100	
Effective Activation Temperature	(O.D. = 0.8)	°F / °C	257 / 118	

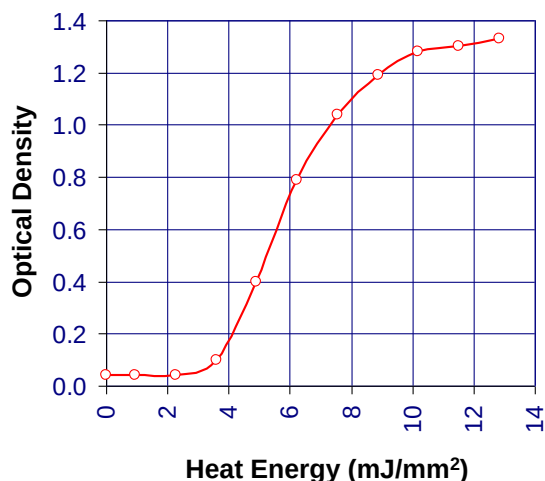
PRESERVATION PROPERTIES

ITEM		SPECIFICATION	TEST METHOD
Water Resistance	Image	1.10 Minimum	Water Immersion 15 Hours
	Background	0.12 Maximum	
Oil Resistance	Image	1.10 Minimum	40° C, Dry, 15 Hours X-Rite (ODU)
	Background	0.15 Maximum	
Moisture Resistance	Image	1.10 Minimum	40° C, 90% RH, 24 Hours X-Rite (ODU)
	Background	0.15 Maximum	
Heat Resistance	Image	1.10 Minimum	80° C, Dry, 1 Hour X-Rite (ODU)
	Background	0.30 Maximum	
Light Resistance	Image	1.10 Minimum	5000 lx, 100 Hours X-Rite (ODU)
	Background	0.15 Maximum	

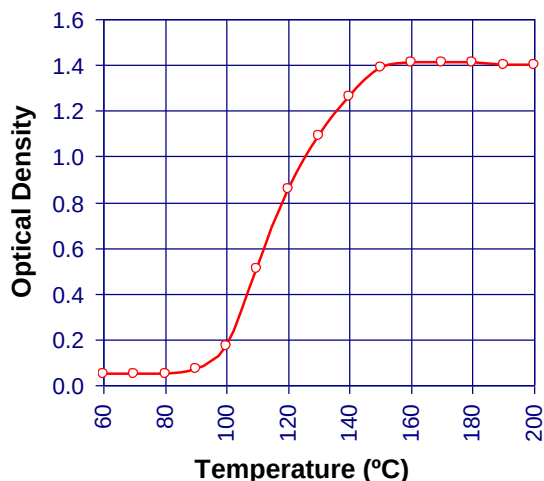


SENSITIVITY RESULTS

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.

135WRx-60 – LAMINATED PRODUCT

GRADE	UNIT	G12
Application	°F	-40 to 122
Temperature	°C	-40 to 50
Service	°F	-65 to 131
Temperature	°C	-54 to 55
Basis Weight	lbs	80 ± 11
(24 x 36 x 500)	g/m ²	131 ± 18
Caliper	µm	139 ± 21
	mil	5.5 ± 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	RoHS	ISO9001	Indirect Food Contact
REACH	WEEE	ISO14001	

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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.
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DESCRIPTION

150-PRx is a medium-high sensitivity direct thermal stock with image durability that resists medical solutions.

KEY FEATURES

Medium-high sensitivity; strong resistant to medical solutions.

— APPLICATION AREAS —



Prescription Labels



Laboratory Labels



Product ID

FACESTOCK / PRESERVATION PROPERTIES

FACESTOCK PROPERTIES

ITEM		UNIT	SPECIFICATION	TEST METHOD
Basis Weight		lbs (24x36x500 sheets)	47.3 ± 4.9	TAPPI T-410
		g/m2	77 ± 8	
Caliper		mil	3.2 ± 0.3	TAPPI T-411
		µm	81 ± 9	
Image Color			Black	Visual Check
Image Density	(ODU)	Minimum	1.25	X-Rite Densitometer
Tear Strength	MD	gf Minimum	30.0	TAPPI T-414
	CD	gf Minimum	35.0	
Tensile Strength	MD	kgf/15 mm Minimum	5.4	TAPPI T-494
	CD	kgf/15 mm Minimum	2.7	
Stiffness	MD	g-cm Minimum	3.0	TAPPI T-489
	CD	g-cm Minimum	2.5	
Initial Activation Temperature	(O.D. = 0.2)	°F / °C	212 / 100	
Effective Activation Temperature	(O.D. = 0.8)	°F / °C	239 / 115	

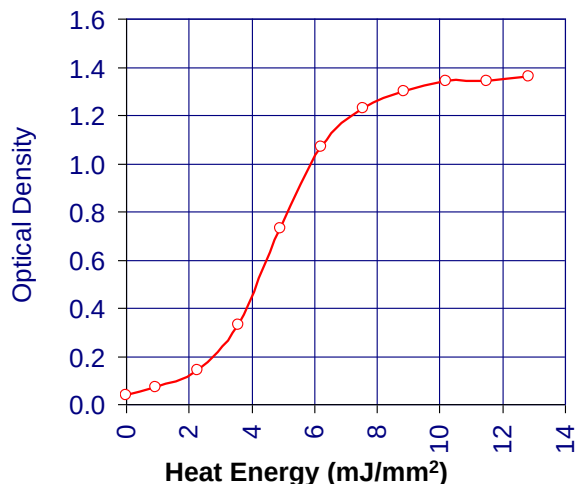
PRESERVATION PROPERTIES

ITEM		SPECIFICATION	TEST METHOD
Oil Resistance	Image	1.10 Minimum	40° C, Dry, 15 Hours
	Background	0.15 Maximum	X-Rite (ODU)
Moisture Resistance	Image	1.10 Minimum	40° C, 90% RH, 24 Hours
	Background	0.15 Maximum	X-Rite (ODU)
Heat Resistance	Image	1.10 Minimum	80° C, Dry, 1 Hour
	Background	0.30 Maximum	X-Rite (ODU)
Light Resistance	Image	1.10 Minimum	5,000 lx, 100 Hours
	Background	0.15 Maximum	X-Rite (ODU)

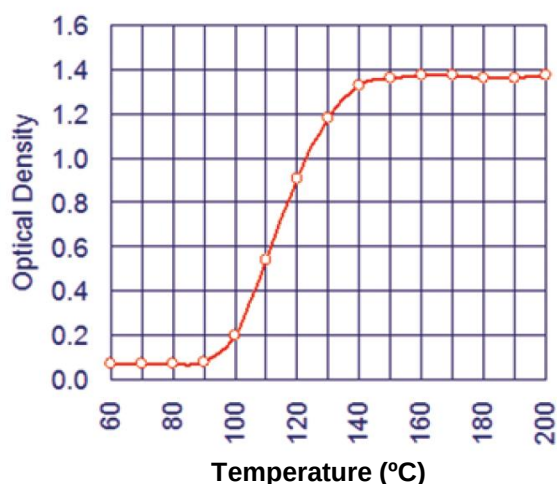


SENSITIVITY RESULTS

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.

150PRx – LAMINATED PRODUCT

GRADE	UNIT	G25	G12L
Application	°F	-40 to 122	-40 to 122
Temperature	°C	-40 to 50	-40 to 50
Service	°F	-65 to 131	-65 to 131
Temperature	°C	-54 to 55	-54 to 55
Basis Weight	lbs	97 ± 12	95 ± 11
(24 x 36 x 500)	g/m ²	158 ± 19	154 +18/-17.5
Caliper	µm	152 ± 18	150 ± 18
	mil	6.0 ± 0.7	5.9 ± 0.7

Liner: 40 lbs

Caliper: 2.5 mils ± 10% (64 ± 8 µm)

Opacity: 65% Maximum (Photovolt)

Adhesive Attributes:

G25 – Wide Temperature and Permanent

G12L – Wide Temperature and Permanent; Repositionable

CERTIFICATES / REGULATIONS / DIRECTIVES

BPA Free

RoHS

ISO9001

Indirect Food Contact

REACH

WEEE

ISO14001

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