



***Release
Liner
Guide***

ROLL LABEL PRODUCTS - Release Liner Properties

LINER (1)	LINER DESCRIPTION	CALIPER THICKNESS (MILS) (MICRONS)	WEIGHT gms/m ²	DIMENSIONAL STABILITY	LAYFLATNESS	DIECUTABILITY	REVERSE SIDE PRINTABILITY	SMOOTHNESS	DISPENSABILITY	COMMENTS
40K-6	40 lb. Semi-bleached White Kraft, Release Coated One Side	2.5 ± 10% (64)	66 ± 10%	2-3	2-3	4-5	4-5	3	2	Use for applications requiring hand dispensing and for thermal printer label sensing.
Spec 40K-7	40 lb. Semi-bleached White Kraft, Release Coated One Side	2.5 ± 10% (64)	67 ± 10%	2-3	2-3	4-5	4-5	3	3-4	Dispensable with slightly tighter release than 40K-8 for improved resistance to piping. Use for applications requiring thermal printer label sensing. Available Quilon* coated on backside to minimize label pick-off.
Spec 40K-8	40 lb. Semi-bleached White Kraft, Release Coated One Side	2.5 ± 10% (64)	67 ± 10%	2-3	2-3	4-5	4-5	3	4-5	Use for applications requiring fast-speed matrix stripping, automatic dispensing and thermal printer label sensing. Available Quilon* coated on backside to minimize label pick-off.
40 White Glassine	40 lb. Translucent Glassine, Release Coated One Side	2.3 ± 10% (58)	67 ± 10%	2-3	2-3	4-5	4-5	4	4-5	Standard glassine roll label liner. Use for applications requiring high-speed matrix stripping, automatic dispensing, and thermal printer label sensing.
44PP-8	44 lb. Poly-coated One Side Natural Kraft, Silicone Coated on the Poly-coated Side	3.0 ± 10% (76)	72 ± 10%	2-3	2	5	4-5	4-5	5-6	Use for applications requiring high-speed dispensing and fast-speed matrix stripping. Liner has improved smoothness and diecutability versus Kraft liners. Available Quilon* coated on backside to minimize label pick-off.
50K-6	50 lb. Semi-bleached White Kraft, Release Coated One Side	3.1 ± 10% (79)	81 ± 10%	2-3	2-3	4-5	4-5	3	2	Use for applications requiring hand dispensing and thermal printer label sensing.
Spec 50K-7	50 lb. Semi-bleached White Kraft, Release Coated One Side	3.1 ± 10% (79)	81 ± 10%	2-3	2-3	4-5	4-5	3	3-4	Dispensable with slightly tighter release than 50K-8 for improved resistance to piping. Use for applications requiring thermal printer label sensing. Available Quilon* coated on backside to minimize label pick-off.
Spec 50K-8	50 lb. Semi-bleached White Kraft, Release Coated One Side	3.1 ± 10% (79)	81 ± 10%	2-3	2-3	4-5	4-5	3	4-5	Standard roll label liner. Use for applications requiring fast-speed matrix stripping, automatic dispensing and thermal printer label sensing. Available Quilon* coated on backside to minimize label pick-off.
60 CK	60 lb. Cast-coated, Backside Printable Liner	4.0 ± 10% (102)	98 ± 10%	2-3	3	4-5	6	5	5	For cling vinyl only. Reduced caliper. No release for roll-to-roll.
60K-6	60 lb. Semi-bleached White Kraft, Release Coated One Side	3.6 ± 10% (91)	94 ± 10%	2-3	3	4	4-5	3	2	Use for applications requiring hand dispensing when slightly heavier carrier than 50K is needed.
70K-6	70 lb. Semi-bleached White Kraft, Release Coated One Side	4.6 ± 10% (117)	116 ± 10%	2-3	2-3	4	5	3	2	Use for applications requiring hand dispensing when slightly heavier carrier than 50K or 60K is needed.
78B M&O-6	78 lb. Bleached White, Clay Coated Kraft, Release Coated One Side	4.7 ± 10% (119)	127 ± 10%	2-3	3	4	3	4	2	Good choice for roll-to-sheet applications. Good diecutting base. Can be used for computer-generated sign cutting/ thermal diecutting applications.
80K-6	80 lb. Semi-bleached White Kraft, Release Coated One Side	4.5 ± 10% (114)	124 ± 10%	2-3	3-4	4	4-5	3	2	Use for applications requiring hand dispensing when heavier carrier than 50K or 60K is needed.
80 PW Premium	8.0 mil White Board Stock Poly-coated One Side, Printable Back Surface	7.7 ± 10% (196)	177 ± 10%	3	4	3-4	5	5	N/A	Reduced caliper cling vinyl liner for roll-to-sheet and roll-to-roll applications. No release coating on this liner.
TRACrite® 100 or 100 Poly H-9	1.0 mil Ultra-smooth, Clear Polyester Release Liner Designed to Provide Superior On-press Performance for Tight-Registration Graphics	1.0 ± 5% (25)	37 ± 10%	6	5	6	2	6	6	Thinner version of TRACrite® 150 for tight registration, high speed matrix stripping and dispensing.
TRACrite® 120 or 120 Poly H-9	1.2 mil Ultra-smooth, Clear Polyester Release Liner Designed to Provide Superior On-press Performance for Tight-Registration Graphics	1.2 ± 5% (30)	44 ± 10%	6	5	6	2	6	6	Thinner version of TRACrite® 150 for tight registration, high speed matrix stripping and dispensing.
TRACrite® 150 or 150 Poly H-9	1.5 mil Ultra-smooth, Clear Polyester Release Liner Designed to Provide Superior On-press Performance for Tight-Registration Graphics	1.4 ± 5% (36)	50.5 ± 10%	6	5	6	2	6	6	Use for tight registration applications requiring high speed matrix stripping and dispensing and ultra smooth appearance.
200 Poly H-9	2.0 mil Hazy Clear Polyester, Release Coated One Side	2.0 ± 5% (51)	70 ± 10%	6	5	6	2	6	6	Use for applications requiring high speed dispensing, ultra smooth adhesive clarity, and a heavier carrier than 150 Poly H-9.
400 Bk Poly H-9	4 mil Black Polyester, Release Coated One Side	4.0 ± 5% (102)	127 ± 10%	6	5	6	2	6	6	Use for specialty applications. Colored background is an advantage when diecutting clear and white films.
400 Poly H-9	4 mil Hazy Clear Polyester, Release Coated One Side	4.0 ± 5% (102)	138 ± 10%	6	5	6	2	6	6	Use for specialty applications including urethane doming.

*Quilon is a registered trademark of E.I. DuPont Company.

SHEET PRODUCTS - Release Liner Properties

LINER	LINER DESCRIPTION	TYPE OF RELEASE (1)	CALIPER THICKNESS (MILS) (MICRONS)	WEIGHT gms/m ²	DIMENSIONAL STABILITY	LAYFLATNESS	DIECUTABILITY	REVERSE SIDE PRINTABILITY	SMOOTHNESS	COMMENTS
8 Point Tag	8 mil White Tag Stock, Release Coated One Side	B	8.1 ± 10% (206)	187 ± 10%	4	4	Kiss Thermal Die (punch)	3	4	Layflat liner with printable backside.
12 Point Board	12 mil White Board Stock, Release Coated One Side	B	12.5 ± 10% (318)	270 ± 10%	4	3	Kiss Thermal	6	4	Good diecutting properties. Printable on backside. Very rigid.
50 LF	50 lb. Bleached White Kraft, Clay-Coated Two Sides, Release Coated One Side	B	3.6 ± 10% (91)	52 ± 10%	3	3	Kiss Thermal Die (punch) Rotary Perfing	5	4	Designed for applications which require a lower caliper with better layflat than a 50K type liner.
60PF Glassine ▼	60 lb. Translucent Glassine, Poly-coated Two Sides, Release Coated One Side	B	3.8 ± 10% (97)	94 ± 10%	2	2	Kiss Die (punch)	1	5	Use for one-way window decals where reverse printed information can be read through liner. Use where layflat is not critical.
60 PRT PFW ▼	60 lb. Bleached White Kraft, Poly-coated Two Sides; Release Coated One Side; Friction Coated Backside to Enhance Feedability through Laser Printers	C	4.6 ± 10% (117)	104 ± 10%	4	5	Rotary Back Cutting Perfing	2	4	Thinner version of 97 PRT PFW. Designed for use in table-top cut sheet and continuous form laser printers.
66PFW ▼	66 lb. Bleached White Kraft, Poly-coated Two Sides, Release Coated One Side	B	4.6 ± 10% (117)	107 ± 10%	4	5	Kiss Die (punch)	1	4	Reduced caliper layflat liner intended for converting roll-to-sheet.
78B M&O-6 Remoist	78 lb. Bleached White Clay-Coated Kraft, Release Coated One Side	C	4.7 ± 10% (119)	127 ± 10%	2-3	3	Kiss Thermal Die (punch)	3	4	A good choice for roll-to-sheet applications. Good diecutting base. Can be used for computer-generated sign cutting/ thermal diecutting applications.
80BPFM ▼	80 lb. Bleached White Clay-Coated Kraft, Poly-coated Two Sides, Release Coated One Side	B	4.8 ± 10% (122)	129 ± 10%	4	5	Kiss Die (punch)	1	5	A good choice for roll-to-sheet applications where improved layflat is required.
80 PW Premium ▼	8.0 mil White Board Stock, Poly-coated One Side, Printable Back Surface	N/A	7.7 ± 10% (196)	177 ± 10%	3	4	Kiss Die (punch)	5	5	Reduced caliper cling vinyl liner for roll-to-sheet and roll-to-roll applications. No release coating on this liner.
90 PFW ▼	90 lb. Bleached White Kraft, Poly-coated Two Sides, Release Coated One Side	B	6.9 ± 10% (175)	143 ± 10%	5	6	Kiss Die (punch)	1	4	Standard sheet form liner. Has superior layflat qualities.
90 PFW EZC ▼	90 lb. Green/White Kraft, Poly-coated Two Sides, Release Coated on Green Side	B	6.9 ± 10% (175)	156 ± 10%	5	6	Kiss Die (punch)	1	4	Provides colored background for light graphics printed on clear films. Has superior layflat qualities.
91 PRT PFW ▼	91 lb. Patented Poly-coated Two Sides Layflat Release Liner	D	7.4 ± 10% (188)	164 ± 10%	5	6	Kiss Die (punch) Rotary	2	4	Superior layflat quality with LAZRmatch™ technology. Excellent for shelf marking.
92 PRT PFW ▼	92 lb. White Kraft, Poly-coated Two Sides, Release Coated One Side; Printable Tissue on Non-release Coated Side	B	7.1 ± 10% (180)	166 ± 10%	4	5	Rotary Back Cutting Perfing	6	4	Standard layflat liner with printable tissue backing. Suitable for cut sheet laser printing. Can be used for roll-to-sheet applications.
94 PFW ▼	94 lb. Bleached White Kraft, Poly-coated Two Sides, Release Coated One Side	B	6.9 ± 10% (175)	153 ± 10%	5	6	Kiss Die (punch)	1	4	Premium grade white layflat liner.
94 PRT PFW ▼	94 lb. Bleached White Kraft, Poly-coated Two Sides, Release Coated One Side; Printable Back Surface	B	6.7 ± 10% (170)	147 ± 10%	5	5	Kiss Die (punch)	6	4	Premium grade layflat liner. Printable on backside. For use with most films.
97 PRT PFW ▼	97 lb. Bleached White Kraft, Poly-coated Two Sides; Release Coated One Side; Friction Coated Backside to Enhance Feedability Through Laser Printers	C	6.8 ± 10% (173)	148 ± 10%	5	6	Rotary Back Cutting Perfing	2	4	Standard layflat liner for cut sheet laser printing applications. Has superior layflat properties. Can be used for roll-to-sheet applications.

SPECIALTY - Release Liner Properties - continued

LINER	LINER DESCRIPTION	TYPE OF RELEASE (1)	CALIPER THICKNESS (MILS) (MICRONS)	WEIGHT gms/m ²	DIMENSIONAL STABILITY	LAYFLATNESS	DIECUTABILITY	SMOOTHNESS	COMMENTS
80 D/F PFW	80 lb. Bleached White Kraft, Poly-coated Two Sides, Release Coated Two Sides	B/C	5.6 ± 10% (142)	124 ± 10%	5	5	3	4	Use for roll form double-faced constructions requiring good layflat qualities.
84 LA PFT	84 lb. Natural Kraft, Polycoated and Differential Release Coated Two Sides	C/C	6.4 ± 10% (163)	134 ± 10%	4	5	3-4	3	Use for roll-to-sheet converting with laminating adhesives requiring good layflat qualities.
84 D/F PFT	84 lb. Natural Kraft, Poly-coated Two Sides, Release Coated Two Sides	C/D	6.4 ± 10% (163)	138 ± 10%	4	5	3-4	3	Use for roll-to-sheet converting with double-faced constructions requiring good layflat qualities.
90 D/F PFW	96 lb. Bleached White Kraft, Poly-coated Two Sides, Release Coated Two Sides	B/B	7.0 ± 10% (178)	158 ± 10%	5	5	3	4	Use for double-faced constructions requiring good layflat and a heavier carrier than 80 D/F PFW.

Note: Values are based on a comparison of these liners with relation to each other for specialty applications. Please contact your Business Team for application suitability.

(1) Type of Release A = Extra Free B = Free C = Standard D = Tight
For specific release values, consult your Business Team.

OVERLAMINATING - Release Liner Properties

LINER (2)	LINER DESCRIPTION	CALIPER THICKNESS (MILS) (MICRONS)	WEIGHT gms/m ²	DIMENSIONAL STABILITY	SMOOTHNESS	COMMENTS
42 White PP-8	42 lb. Poly-coated One Side Bleached White Kraft, Silicone Coated on the Poly-coated Side	3.1 ± 10% (79)	69 ± 10%	2-3	4-5	Economy grade white overlaminating liner. Use for all grades of overlaminating films. Not recommended for applications when overlaminating solid dark colors or metallized films.
44PP-8	44 lb. Poly-coated One Side Natural Kraft, Silicone Coated on the Poly-coated Side	3.0 ± 10% (76)	72 ± 10%	2-3	4-5	Economy grade natural overlaminating liner. Use for all grades of overlaminating films. Not recommended for applications when overlaminating solid dark colors or metallized films.
58PW-8	58 lb. Bleached White Kraft, Poly-coated One Side, Release Coated on the Poly-coated Side	4.1 ± 10% (104)	95 ± 10%	2-3	4	Standard overlaminating liner. Use for all grades of overlaminating films. Not recommended for applications when overlaminating solid dark colors or metallized films.
71BPMO-8	71 lb. Bleached White Clay-Coated Kraft, Poly-coated One Side, Release Coated on the Poly-coated Side	4.3 ± 10% (109)	115 ± 10%	2-3	5	Use for applications requiring improved smoothness and flow-out of adhesive on the overlaminating film.
100 Poly H-9	1.0 mil Hazy Clear Polyester, Release Coated One Side	1.0 ± 5% (25)	32 ± 10%	6	6	Use for applications requiring ultimate smoothness and flow-out of adhesive on the overlaminating film. Provides superior quality flow-out of adhesive for critical applications such as overlaminating embossed decals and labels, solid dark colors and metallized films.
150 Poly H-9	1.5 mil Hazy Clear Polyester, Release Coated One Side	1.4 ± 5% (36)	49 ± 10%	6	6	Use for applications requiring ultimate smoothness and flow-out of adhesive on the overlaminating film. Provides superior quality flow-out of adhesive for critical applications such as overlaminating embossed decals and labels, solid dark colors and metallized films.

Note: Values are based on a comparison of these liners with relation to each other for overlaminating applications. Please contact your Business Team for application suitability.

(2) Numbers after release liner code (e.g., 58PW-8) designate release characteristics of that liner. On a scale of 1-9, the higher the number, the freer the release:

6 = Standard (180 ± 80 gms/in)
7 = Moderately Free (100 ± 40 gms/in)
8 = Extra Free (60 ± 25 gms/in)
9 = Super Free (30 ± 20 gms/in)

Key

1 = Poor 4 = Very good
2 = Fair 5 = Excellent
3 = Good 6 = Superior

SHEET PRODUCTS - Release Liner Properties - continued

LINER	LINER DESCRIPTION	TYPE OF RELEASE (1)	CALIPER THICKNESS (MILS) (MICRONS)	WEIGHT gms/m ²	DIMENSIONAL STABILITY	LAYFLATNESS	DIECUTABILITY	REVERSE SIDE PRINTABILITY	SMOOTHNESS	COMMENTS
100MS White	100 lb. White Board Stock, Release Coated One Side	B	8.1 ± 10% (206)	179 ± 10%	3	4	Kiss Thermal Die (punch)	5	4	Economy grade layflat liner with printable backing. Used primarily with FLEX-S™ vinyls with V-20 adhesive.
100MS Blue	100 lb. Blue Board Stock, Release Coated One Side	B	8.1 ± 10% (206)	179 ± 10%	3	4	Kiss Thermal Die (punch)	5	4	Economy grade layflat liner with printable backing. Used primarily with FLEX-S™ vinyls with V-30 adhesive.
100 PW▼	9.5 mil White Board Stock, Poly-coated One Side; Printable Back Surface	N/A	9.5 ± 10% (241)	208 ± 10%	5	5	Kiss Die (punch)	5	5	Premium grade layflat liner for cling vinyl. Printable on backside. No release coating on this liner.
100 PW Black	9.5 mil Backside Printable Kraft Liner That is Black Poly-coated One Side	N/A	9.5 ± 10% (241)	207 ± 10%	5	5	Kiss Die (punch)	5	5	Premium grade layflat release liner for cling vinyl. Printable on backside, no release coating.
300 Poly Matte	3 mil Clear Polyester, Release Coated One Side Matte Coated on the Backside	A	3.4 ± 10% (86)	106 ± 10%	6	5	Kiss Thermal Die (punch)	5	6	Matte coated on the back side to assist in feeding on sheet presses and laser printers.
400 Bk Poly	4 mil Black Polyester, Release Coated One Side	A	4.0 ± 5% (102)	127 ± 10%	6	5	Kiss Thermal Die (punch)	2	6	Use for specialty applications. Colored background is an advantage when diecutting clear and white films.
400 Poly	4 mil Hazy Clear Polyester, Release Coated One Side	A	4.0 ± 5% (102)	138 ± 10%	6	5	Kiss Thermal Die (punch)	2	6	Use for specialty applications including urethane doming.
400 Poly H-9 AS	4 mil Hazy Clear Polyester, Release Coated One Side, Matte Anti-stick Coated on the Other Side	B	4.0 ± 5% (102)	138 ± 10%	6	6	Kiss Thermal Die (punch)	2	6	Matte anti-stick coated on the backside to promote improved sheet feeding on press. Also used for urethane doming applications.
700 Poly AS	7 mil Anti-stick Clear Hazy Liner, Backside Coated	B	7.0 ± 5% (178)	262 ± 10%	6	6	Kiss Thermal Die (punch)	1	6	For Cling Vinyl only. Excellent layflat characteristics.

Note: Values are based on a comparison of these liners with relation to each other for roll label and sheetable product applications. Please contact your Business Team for application suitability.

Roll Label Products

(1) Numbers after release liner code (e.g., Spec 50K-8) designate release characteristics of that liner. On a scale of 1-9, the higher the number, the freer the release:

6 = Standard (180 ± 80 gms/in)
 7 = Moderately Free (100 ± 40 gms/in)
 8 = Extra Free (60 ± 25 gms/in)
 9 = Super Free (30 ± 20 gms/in)

Sheet Products

(1) Type of Release:

A = Extra Free
 B = Free
 C = Standard
 D = Tight

For specific release values, consult your Business Team.

▼ Poly-coated liners are not recommended for thermal diecutting.

❖ U.S. Patent No. 6,110,552 and 6,403,190. Other patents pending.

Key

1 = Poor 4 = Very good
 2 = Fair 5 = Excellent
 3 = Good 6 = Superior

Specialty - Release Liner Properties

LINER	LINER DESCRIPTION	TYPE OF RELEASE (1)	CALIPER THICKNESS (MILS) (MICRONS)	WEIGHT gms/m ²	DIMENSIONAL STABILITY	LAYFLATNESS	DIECUTABILITY	SMOOTHNESS	COMMENTS
55 LA K	55 lb. Semi-bleached White Kraft, Differential Release Coated Two Sides	C/D	3.2 ± 10% (81)	85 ± 10%	2-3	3	4-5	3	Use for roll-to-roll converting with laminating adhesives.
55 D/F K	55 lb. Semi-bleached White Kraft, Release Coated Two Sides	C/C	3.2 ± 10% (81)	85 ± 10%	2-3	3	4-5	3	Use for roll-to-roll converting with double-faced constructions.
60 LA PFW	60 lb. Bleached White Kraft, Polycoated and Differential Release Coated Two Sides	C/D	4.3 ± 10% (109)	99 ± 10%	4	4	3-4	3	Use for roll-to-roll or roll-to-sheet converting with laminating adhesive.
60 D/F PFW	60 lb. Bleached White Kraft, Polycoated and Release Coated Two Sides	C/C	4.3 ± 10% (109)	99 ± 10%	4	4	3-4	3	Use for roll-to-roll or roll-to-sheet double-faced constructions.
70 D/F K	70 lb. Semi-bleached White Kraft, Release Coated Two Sides	B/C	4.1 ± 10% (104)	106 ± 10%	3	2	4	3	Use for roll form double-faced constructions.
78 K	78 lb. Semi-bleached White Kraft, Release Coated One Side	D	4.0 ± 10% (102)	81 ± 10%	2-3	2-3	4	3	This liner is available release coated one side and release coated two sides.

Key

1 = Poor, 2 = Fair, 3 = Good, 4 = Very good, 5 = Excellent, 6 = Superior



Let's Talk Solutions

Bring your challenges or next big idea to FLEXcon and we will work together to find a solution. Call us at (508) 885-8200 or visit our website at www.FLEXcon.com.

Corporate Headquarters

1 FLEXcon Industrial Park
Spencer, MA 01562-2642 USA
Telephone (508) 885-8200
FAX (508) 885-8400
www.FLEXcon.com

Performance Products Business Team
Telephone (508) 885-8440
FAX (508) 885-8355

Product Branding Business Team
Telephone (508) 885-8370
FAX (508) 885-8399

Product Identification Business Team
Telephone (508) 885-8300
FAX (508) 885-8301

Manufacturing, Distribution & Sales Centers

North America

FLEXcon Spencer, Massachusetts
1 FLEXcon Industrial Park
Spencer, MA 01562-2642
Telephone (508) 885-8200
FAX (508) 885-8400
FLEXexpress FAX: 1-800-428-4505

FLEXcon Columbus, Nebraska
2021 E. 23rd Street
Columbus, NE 68601
Telephone (402) 562-6131
FAX (402) 562-6054

Europe

FLEXcon Europe Ltd.
Whitworth Road
Southfield Industrial Estate
Glenrothes, Fife KY6 2TF
Scotland-UK
Telephone +44 1592 663200
FAX +44 1592 663201
europeinfo@FLEXcon.com

Sales Offices

North America

FLEXcon Pennsylvania
Routes 1 & 202
The Weichert Building, Suite 260
P.O. Box 156
Chadds Ford, PA 19317
Telephone (610) 358-2571
FAX (610) 358-5946

FLEXcon Kansas

1305 South Fountain Drive
Olathe, KS 66061
Telephone (913) 768-8669
FAX (913) 894-5129
FLEXexpress FAX: 1-800-732-4329

Distribution & Sales Facilities

North America

FLEXcon California
12840 Reservoir Street
Chino, CA 91710-2952
Telephone (909) 465-0408
FAX (909) 627-4136
FLEXexpress FAX: 1-800-446-4136

FLEXcon Ontario

1020 Lorimar Drive
Mississauga, Ontario L5S 1R8
Canada
Telephone (905) 795-5509
FAX (905) 795-8984
FLEXexpress FAX: 1-800-563-9143

Europe

FLEXcon Europe Ltd.
Flevolaan 3
1382 JX WEESP
P.O. Box 131
1380 AC WEESP
The Netherlands
Telephone +31 294 491800
FAX +31 294 430887
europeinfo@FLEXcon.com

Latin America, Asia-Pacific, Africa and Middle East

FLEXcon International

Sales Office
1 FLEXcon Industrial Park
Spencer, MA 01562-2642
Telephone (508) 885-8223
FAX (508) 885-8355