

WE LEAD.
WE LEARN.



LABELSTOCK TECHNICAL INFORMATION



PRODUCTS TO MEET YOUR NEEDS

UPM Raflatac products have been developed to meet the requirements of modern printing techniques and the demands of a variety of end-use applications. We work closely with converters and end-users to develop products to meet our customers' needs.

This brochure is designed to serve as your quick reference guide to UPM Raflatac's product components. Inside, you will find comprehensive technical information about UPM Raflatac's face materials, adhesives and liners, as well as recommendations for their use.

UPM Raflatac's internet pages and the Raflink Business Line have also been developed to complement this publication and present further information about our comprehensive product and service offerings. Please visit www.upmraflatac.com or contact your local sales representative for more information.

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FACE MATERIALS

Name and quality	Use	Substance lbs./ream*	Caliper mils.	Tensile strength lbf/in. MD/CD	Brightness % ISO2470	Roughness microns PPS10	Opacity % ISO2471	Gloss % Hunter 75°
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UNCOATED LASER AND INK-JET

50# JETLASER Lignin-free, machine finished paper.	Multifunctional information label paper, specially designed for ink-jets (both single and multicolor), lasers and photocopiers.	47	3.5	31/13	89	—	92	—
50# JETLASER OPAQUE Lignin-free, machine finished paper with reverse side opaque coating.	Multifunctional information label paper, specially designed for ink-jets (both single and multicolor), lasers and photocopiers.	57	3.7	35/14	81	—	99	—
50# LASER PLUS Lignin-free, machine finished paper.	Multifunctional information label paper designed for ink-jets, lasers and photocopiers.	47	3.6	34/—	89	—	90	—
50# PREMIUM PHARMALASER Lignin-free, machine finished paper.	Multifunctional information label paper designed for laser and ink-jet pharmacy applications.	47	3.6	34/—	89	—	90	—
54# LASER Lignin-free, machine finished paper.	Label paper with high absorbency. Especially suitable for flood-coated laser labels.	54	4.0	35 /14	94	—	88	—

COATED LASER

56# LASERGLOSS Cast-coated, lignin-free paper with mirror-like gloss finish.	For high quality, multicolor copy and laser printing.	56	4.0	29/19	90	0.4	90	82
60# MATTE LASER Lignin-free, off-machine coated, super calendered label paper.	For multipurpose labels requiring a matte finish. Suitable for both sheeted and continuous laser applications.	50	3.1	27/18	93	1.5	88	—
MID-GLOSS LASER BRITE Bright white, on-machine coated, lignin-free, semi-gloss label paper.	Designed for continuous laser applications. Its exceptional brightness allows it to create a premium image.	57	2.8	32/15	93	0.7	89	78

COATED INK-JET

JETGLOSS Special-coated, gloss finished paper.	For multicolor ink-jet printing that requires high resolution. Print properties of the paper can extend to photo-quality level.	64	4.3	23/14	95	1.3	90	80
JETGLOSS SOHO Special-coated, gloss finished paper.	For multicolor SOHO (small office/home office) ink-jet printing. Print properties of the paper can extend to photo-quality level.	74	4.0	23/19	94	1.3	90	75
JETCOLOR Special-coated, matte finished paper.	For multicolor ink-jet printing that requires high resolution. Print properties of the paper can extend to photo-quality level.	60	4.7	20/16	94	5.0	94	—

THERMAL TRANSFER

TRANSFER FLEX One-side matte-coated face paper.	On-line calendered for excellent thermal transfer printability and runnability on flexo and UV-flexo presses.	47	2.6	25/13	90	1.2	86	—
TRANSFER PREMIUM LITE Matte-coated, lignin-free label paper.	Ultra-smooth, coated face material for excellent thermal transfer printing and flexography.	44	2.9	26/17	87	1.8	87	—
TRANSFER PREMIUM PLUS Matte-coated, lignin-free label paper.	Ultra-smooth, coated face material tailored for thermal transfer printing.	47	2.9	26/17	85	1.8	87	—
TRANSFER PREMIUM PLUS OPAQUE Ultra-smooth, matte-coated label paper with opaque reverse side coating.	Excellent flexo and universal thermal printing.	47	3.1	26/17	85	1.8	99	—
TRANSFER PREMIUM EXTRA Matte-coated, lignin-free label paper.	Ultra-smooth, two-side coated face material for excellent thermal transfer printing and flexography.	46	2.7	26/16	89	1.2	87	—
TRANSFERGLOSS PLUS White, cast-coated label paper.	Smooth, glossy label paper specifically developed for thermal transfer applications.	57	3.9	26/16	90	0.4	90	93

*Ream = 500 sheets, 25" x 38"

FACE MATERIALS

Name and quality	Use	Substance lbs./ream*	Caliper mils.	Tensile strength lbf/in. MD/CD	Brightness % ISO2470	Roughness microns PPS10	Opacity % ISO2471	Gloss % Hunter 75°
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DIRECT THERMAL

DIRECT THERMAL ECO Non top-coated, non smudgeproof, chemi-thermal paper with standard sensitivity.	For VIP labeling in dry environments such as POS price marking and other retail uses. Avoid contact with plasticizers (PVC) and fat. Not for use with over-print varnishes.	51	3.2	29/15	87	1.5	92	—
DIRECT THERMAL ECO OPAQUE Non top-coated, non smudgeproof, chemi-thermal paper with standard sensitivity and opaque coating.	For VIP labeling in dry environments such as POS price marking and other retail uses. Avoid contact with plasticizers (PVC) and fat. Not for use with over-print varnishes.	51	3.4	29/15	90	1.5	99	—
DIRECT THERMAL PREMIUM ECO High resistant, non top-coated, non smudgeproof, chemi-thermal paper with standard sensitivity.	For VIP labeling in POS price marking and other retail uses that require some environmental resistance. Not for use with over-print varnishes.	52	3.3	27/14	87	1.5	90	—
DIRECT THERMAL TOP Top barrier-coated, smudgeproof, chemi-thermal paper with standard sensitivity.	For universal VIP labeling requiring good environmental resistance of the printed image. For retail use.	53	3.2	30/21	91	1.2	89	—
DIRECT THERMAL TOP HS Top barrier-coated, smudgeproof, chemi-thermal paper with high sensitivity.	For universal VIP labeling requiring good environmental resistance of the printed image. Offers high printing sensitivity for high-speed, near-edge or low energy printers.	53	3.0	30/21	89	1.2	88	—
DIRECT THERMAL TOP NIR Top barrier-coated, chemi-thermal paper. Scanning up to 675 nanometers.	For VIP labeling requiring good environmental resistance of the printed image.	55	3.3	30/21	89	1.2	86	—
DIRECT THERMAL RX Barrier-coated, chemi-thermal paper with standard sensitivity and enhanced resistance.	For universal VIP labeling requiring excellent environmental resistance of the printed image. Suitable for retail prescription labeling.	51	3.1	35/21	87	1.4	85	—

HIGH-GLOSS

RAFLAGLOSS Off-machine coated, glossy art paper.	High-gloss label paper for top-quality, multicolor product labels. Exceptional whiteness offers superb contrast.	54	2.6	27/15	90	0.5	86	90
KROMEKOTE® EXTRAGLOSS High-gloss, bright white, cast-coated, lignin-free paper.	Developed for promotional and product enhancing label applications.	57	3.9	26/16	90	0.4	90	93

SEMI-GLOSS

50# RAFLACOAT White, lignin-free, on-machine coated, super calendered, semi-gloss paper.	Multipurpose label paper for high quality, multicolor labels requiring good print definition and fine detail.	47	2.4	27/13	92	1.0	85	70
54# RAFLACOAT White, lignin-free, on-machine coated, super calendered, semi-gloss paper.	Multipurpose label paper for high quality, multicolor labels requiring good print definition and fine detail.	54	2.7	28/14	92	1.0	87	70
RAFLACOAT PLUS White, lignin-free, on-machine coated, super calendered, semi-gloss paper.	Multipurpose label paper for high quality, multicolor labels requiring good print definition and fine detail.	57	2.9	32/17	92	0.9	89	70
60# RAFLACOAT White, lignin-free, on-machine coated, super calendered, semi-gloss paper.	Multipurpose label paper for high quality, multicolor labels requiring good print definition and fine detail.	60	3.0	34/18	89	0.9	89	75
RAFLASILK White, lignin-free, on-machine coated, super calendered, semi-gloss paper.	Multipurpose label paper for high quality, multicolor labels requiring good print definition and fine detail.	57	2.8	33/15	93	0.7	89	78
RAFLASILK OPAQUE White, lignin-free, on-machine coated, semi-gloss paper with reverse side coating.	Multipurpose label paper for high quality, multicolor labels for 'blockout' applications.	57	2.8	33/15	89	0.7	99	78
RAFLASILK WSA Off-machine coated, lignin-free, wet strength and alkali resistant, glossy art paper.	Multipurpose label paper for high quality labels requiring good print definition and fine detail. For applications requiring good resistance to moisture.	54	2.6	25/14	89	0.6	86	70
50# DAIRY White, lignin-free, coated face paper with anti-wicking properties.	For label applications that require resistance to moisture wicking.	50	2.8	29/14	84	1.3	86	60
60# DAIRY White, lignin-free, coated face paper with anti-wicking properties.	For label applications that require resistance to moisture wicking.	60	3.3	31/16	84	1.3	89	60

MATTE LITHO

RAFLAMATT White, off-machine coated, lignin-free, super calendered, matte label paper.	Multipurpose label paper with matte finish suitable for thermal transfer printed labels.	50	3.1	32/17	90	—	88	—
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*Ream = 500 sheets, 25" x 38"

FACE MATERIALS

Name and quality	Use	Substance lbs./ream*	Caliper mils.	Tensile strength lbf/in. MD/CD	Brightness % ISO2470	Roughness microns PPS10	Opacity % ISO2471	Gloss % Hunter 75°
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FLUORESCENTS

CHARTREUSE, GREEN, ORANGE, PINK, RED FLUORESCENT Lignin-free paper with fluorescent coating.	Eye-catching display label paper for price marking, promotional use and information labels printed on lasers and copiers.	58	3.8	26/16	—	—	—	—
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EDP/DATA

50# DATA Surface-sized, lignin-free, machine finished paper.	Multipurpose label paper for information labeling; impact and non-impact printing. Especially suitable for high-speed laser printers. Suitable for ink-jet.	50	3.9	30/11	93	—	91	—
50# DATA OPAQUE Surface-sized, lignin-free, machine finished paper with reverse side opaque coating.	Multipurpose label paper for information labeling; impact and non-impact printing. Suitable for continuous applications.	57	3.7	35/14	81	—	99	—
50# DATA HS Surface-sized, lignin-free, machine finished paper with high CD tensile strength.	Multipurpose label paper for information labeling; impact and non-impact printing. Especially suitable for high-speed laser printers. Suitable for ink-jet.	50	3.8	38/19	92	—	89	—

METALIZED PAPERS

SILVERVAC Paper-based, metalized face material with a brilliant metal layer.	High quality labels for prime labeling and special applications.	56	2.7	28/18	—	1.0	99	—
GOLDVAC Paper-based, metalized face material with a brilliant metal layer.	High quality labels for prime labeling and special applications.	56	2.7	28/18	—	1.0	99	—

TAGS

8 pt. C1S CAROLINA® TAG White, lignin-free, on-machine coated, super calendered, semi-gloss tag material.	Multipurpose tag material for high quality, multicolor labels.	123	8.0	—	94	1.2	—	60
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WINE

SILVERVAC Paper-based, metalized face material with a brilliant metal layer.	High quality labels for prime labeling and special applications.	56	2.7	28/18	—	1.0	99	—
60# MATTE LITHO WSA White, high opacity, off-machine coated, super calendered, wet strength label paper.	Multipurpose wet strength label paper for applications requiring high opacity.	60	3.2	25/15	92	—	93	—
KROMEKOTE® EXTRAGLOSS WSA High-gloss, bright white, cast-coated, wet strength label paper.	Mirror smooth cast-coated for exceptional ink holdout. For high quality label applications.	60	3.6	26/18	90	0.4	92	80
ESTATE #4 White, laid finish, wet strength label paper.	High quality label paper for wine and beverage applications where image is as important as performance.	60	5.5	25/13	87	—	93	—
ESTATE #4 IL White, laid finish, wet strength label paper.	High quality label paper for wine and beverage applications where image is as important as performance. Designed for HP Indigo roll-to-roll applications.	60	5.5	25/13	87	—	93	—
ESTATE #8 Bright white, vellum finish, wet strength label paper.	High quality label paper for wine and beverage applications where image is as important as performance.	60	4.8	25/13	92	—	93	—
ESTATE #9 Cream, laid finish, wet strength label paper.	High quality label paper for wine and beverage applications where image is as important as performance.	60	5.4	25/13	73	—	91	—
CLASSIC CREST® NATURAL WHITE Wine label paper.	Premium smooth, cream color, uncoated, wet strength paper designed specifically for wine labeling.	60	4.4	26/22	79	—	93	—
CLASSIC CREST® SOLAR WHITE Wine label paper.	Premium smooth, ultra-white, uncoated, wet strength paper designed specifically for wine labeling.	60	4.4	26/22	91	—	88	—
70# CLASSIC CREST® SOLAR WHITE FELT Wine label paper.	Premium smooth, ultra-white, wet strength paper designed specifically for wine labeling.	70	6.0	41/22	91	—	92	—
CLASSIC® LAID SOLAR WHITE Wine label paper.	Laid patterned, ultra-white, wet strength paper designed specifically for wine labeling.	60	5.0	25/13	91	—	88	—
SERAC Wine label paper.	Premium, ultra-white, uncoated wet strength paper designed specifically for wine labeling.	60	4.9	27/—	—	—	93	—
ICY WHITE Premium, high opacity wine label paper.	Premium smooth, ultra-white, wet strength paper with back-side coating. Designed for superior wet opacity and ice bucket immersion performance.	74	5.4	15/—	—	—	96	—

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FACE MATERIALS

Name and quality	Use	Substance lbs./ream*	Caliper mils.	Tensile strength lb/in. MD/CD	Brightness % ISO2470	Roughness microns PPS10	Opacity % ISO2471	Gloss % Hunter 75*
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SPECIALS

PHARMAGLOSS Off-machine coated, semi-gloss, lignin-free label paper.	Multipurpose, lightweight label paper. Specifically developed for pharmaceutical applications, small diameters and curved surfaces. For applications that require labels with high flexibility.	44	2.3	25/13	88	1.0	85	72
PHARMAGLOSS OBA Off-machine coated, optical brightening agent (OBA) free, lightweight, semi-gloss label paper.	Multipurpose, lightweight label paper for demanding applications on small curved surfaces, a tight mold and those requiring a high degree of flexibility.	40	2.1	—	88	0.8	82	77

Name and quality	Use	Substance lbs./ream*	Caliper mils.	Elongation MD/CD DIN53455	Opacity %
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VIP FILMS

1.7 mil. POLYLASER MATTE TRANSPARENT Transparent, matte-coated, heat-stabilized polyester film.	Information labeling where imprinting is made by laser or thermal transfer. Recommended for drum and logistics labeling.	38	1.7	145/135	—
2.3 mil. POLYLASER MATTE WHITE White, heat-stabilized, matte-coated, computer-imprintable polyester film.	Information labeling where imprinting is made by laser or thermal transfer. Recommended for drum and logistics labeling.	51	2.3	150/130	88
POLYJETLASER GLOSS CLEAR Special-coated, gloss clear PET film.	For multipurpose laser and ink-jet applications. Print properties of the film extend to photo-quality level.	40	2.0	—	25
POLYJET MATTE TRANSPARENT Special-coated, matte transparent polyester film.	Multicolor ink-jet printing for small office/home office applications.	41	2.2	130/130	—
POLYJETLASER MATTE TRANSPARENT Special-coated, matte transparent PET film.	For multipurpose laser and ink-jet applications. Print properties of the film extend to photo-quality level.	40	2.0	—	25
3.0 mil. PP MATTE WHITE TC Matte white, biaxially oriented, top-coated polypropylene film.	For prime labeling as well as thermal transfer applications where resistance to water, oil and/or chemicals is important.	35	3.0	—	90
2.9 mil. SYN-THERMAL Top-coated, direct thermal, film label face material.	For applications such as retail shelf labels, baggage tags and where water and environmental resistance and high durability are required. For product and industrial labeling.	41	2.9	—	90
3.2 mil. SYN-THERMAL Top-coated, direct thermal, film label face material.	For applications such as retail shelf labels, baggage tags and where water and environmental resistance and high durability are required. For product and industrial labeling.	46	3.2	—	90
3.9 mil. KIMDURA® MULTI-TASK Synthetic paper with a patented smudgeproof coating.	Offers extended durability, resistance to common solvents or initiated tear resistance. For use with thermal transfer and impact printing methods.	68	3.9	—	93
4.0 mil. KIMDURA® SMUDGEPROOF Synthetic paper with a proprietary top coating.	Provides resistance to common solvents and abrasion. Polypropylene substrate offers excellent converting characteristics. For use with thermal transfer and impact printing methods.	55	4.0	—	93
NTC WHITE VINYL White, matte, non top-coated PVC.	For applications such as shelf-edge marking and logistics labeling. Requires a converter applied, laser-receptive top coating for laser printing.	85	3.5	100/—	—
NTC FROSTY CLEAR VINYL Non top-coated, frosty clear PVC.	For applications such as shelf-edge marking and logistics labeling. Requires a converter applied, laser-receptive top coating for laser printing.	69	3.2	100/—	—

UL APPROVED

POLYESTER WHITE White, semi-gloss, chemically treated polyester film.	For information labeling where very good resistance against water, oil and/or chemicals is important. UL/CSA approved.	37	2.0	85/50	—
POLYESTER SILVER Metalized, matte-coated, polyester film.	For information labeling where very good resistance against water, oil and/or chemicals is important. UL/CSA approved.	49	2.0	140/100	—

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FACE MATERIALS

Name and quality	Use	Substance lbs./ream*	Caliper mils.	Elongation MD/CD DIN53455	Gloss %	Opacity %
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PRIME FILMS

2.0 mil. PP CLEAR TC Transparent, glossy, biaxially oriented, top-coated polypropylene film.	For prime labeling applications where resistance against water, oil and/or chemicals is important. For labeling toiletries and cosmetics. Suitable for thermal transfer imprinted information labels.	31	2.0	165/65	88	—
2.0 mil. PP CHROME TC Metalized, glossy, biaxially oriented, top-coated polypropylene film.	For prime labeling applications where resistance against water, oil and/or chemicals is important. For the promotion of toiletries, cosmetics and other point of sale applications.	31	2.0	80/—	88	—
2.3 mil. PP SOLID WHITE TC Solid white, glossy, biaxially oriented, top-coated polypropylene film.	For prime labeling applications where resistance against water, oil and/or chemicals is important. For labeling toiletries and cosmetics.	37	2.3	—	80	80
2.4 mil. PP WHITE TC Biaxially oriented, top-coated polypropylene film.	For prime labeling applications where resistance against water, oil and/or chemicals is important.	30	2.4	165/—	—	80
2.6 mil. PP WHITE White, glossy, biaxially oriented, corona treated polypropylene film.	For prime labeling applications where resistance against water, oil and/or chemicals is important. For labeling toiletries and cosmetics. Suitable for thermal transfer imprint.	30	2.6	165/—	65	80
2.6 mil. PP WHITE TC White, glossy, biaxially oriented, top-coated polypropylene film.	For prime labeling applications where resistance against water, oil and/or chemicals is important. For labeling toiletries and cosmetics. Suitable for thermal transfer imprint.	30	2.6	165/—	65	80
RAFLEX PLUS CLEAR TC Conformable, transparent, glossy, top-coated polypropylene film.	For prime labeling applications where resistance against water, oil and/or chemicals is important. For labeling toiletries and cosmetics.	33	2.2	—	80	—
RAFLEX PLUS WHITE TC Conformable, white, glossy, top-coated polypropylene film.	For prime labeling applications where resistance against water, oil and/or chemicals is important. For labeling toiletries and cosmetics.	34	2.2	—	80	75
PE CLEAR 85 Transparent, glossy, corona treated polyethylene film.	For prime labeling applications where resistance against water, oil and/or chemicals is important. For labeling toiletries and cosmetics.	54	3.3	350/—	85	—
PE CLEAR TC 85 Transparent, glossy, top-coated polyethylene film.	For prime labeling applications where resistance against water, oil and/or chemicals is important. For labeling toiletries and cosmetics.	54	3.3	350/—	85	—
PE WHITE 85 White, glossy, corona treated polyethylene film.	For prime labeling applications where resistance against water, oil and/or chemicals is important. For labeling toiletries and cosmetics.	57	3.3	200/—	75	—
PE WHITE TC 85 White, glossy, top-coated polyethylene film.	For prime labeling applications where resistance against water, oil and/or chemicals is important. For labeling toiletries and cosmetics.	57	3.3	200/—	75	—
2.5 mil. PS CLEAR Transparent, biaxially oriented film.	For prime labeling applications where resistance against water oil and/or chemicals is important.	44	2.5	90/—	80	—

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DIGITAL

KROMEKOTE® EXTRAGLOSS IL High-gloss, bright white, cast-coated, lignin-free paper.	For promotional and product enhancing label applications. Developed for HP Indigo roll-fed digital printers.	57	3.9	26/16	90	0.4	90	93
60# RAFLACOAT IL Semi-gloss, machine-coated, off-line varnished label paper.	Multipurpose label paper for high quality, multicolor labels requiring good print definition and fine detail. Developed for HP Indigo roll-to-roll applications.	61	3.1	33/17	92	1.1	70	90
RAFLASILK IL White, machine-coated, semi-gloss, lignin-free face paper.	Multipurpose label paper for high quality, multicolor labels requiring good print definition and fine detail. Optimized for HP Indigo digital printing presses.	57	2.8	32/15	93	1.1	89	83
SILVERVAC IL Paper-based, metalized face material with a brilliant metal layer and top coating.	High quality labels for product labeling and special applications. Suitable for HP Indigo roll-to-roll applications.	52	3.0	32/18	—	—	—	—
ESTATE #4 IL White, laid finish, wet strength label paper.	High quality label paper for wine and beverage applications where image is as important as performance. Designed for HP Indigo roll-to-roll applications.	60	5.5	25/13	87	—	93	—
PP CLEAR IL Transparent, glossy, top-coated polypropylene film.	For product labeling applications in cosmetics, toiletries, health and beauty. Suitable for HP Indigo roll-to-roll applications.	37	2.4	—	—	—	—	—
PP WHITE IL White, glossy, top-coated polypropylene film.	For product labeling applications in cosmetics, toiletries, health and beauty. Suitable for HP Indigo roll-to-roll applications.	39	2.4	—	—	—	—	—

*Ream = 500 sheets, 25" x 38"

FACE MATERIALS

Name and quality	Use	Substance lbs./ream*	Caliper mils.	Tensile strength lbf/in. MD/CD	Brightness % ISO2470	Roughness microns PPS10	Opacity % ISO2471	Gloss % Hunter 75°
50# JETLASER Lignin-free, machine finished paper.	Multifunctional information label paper, specially designed for ink-jets (both single and multicolor), lasers and photocopiers.	47	3.5	31/13	89	—	92	—
TRANSFER PREMIUM LITE Matte-coated, lignin-free label paper.	Ultra-smooth, coated face material for excellent thermal transfer printing and flexography.	44	2.9	26/17	87	1.8	87	—
7 pt. THERMAL TRANSFER TAG Matte-coated thermal transfer tag.	Multipurpose tag stock with engineered thermal transfer-receptive coating for VIP tag and ticket applications.	119	7.3	—	88	2.0	—	—
DIRECT THERMAL TOP Top barrier-coated, smudgeproof, chemi-thermal paper with standard sensitivity.	For universal VIP labeling requiring good environmental resistance of the printed image. For retail use.	53	3.2	30/21	91	1.2	89	—
7.2 pt. DIRECT THERMAL TAG, 200 dpi Top barrier-coated, chemi-thermal tag with high sensitivity.	200 dpi direct thermal stock for standard VIP ticketing applications. Backcoated for print receptivity.	114	7.2	—	85	1.2	—	—
10.0 pt. DIRECT THERMAL TAG Top barrier-coated, chemi-thermal tag with standard sensitivity.	Excellent strength and superb direct thermal print quality for ticketing applications. Ink-receptive backside coating.	155	10.0	—	88	1.2	—	—
60# C1S SEMI-GLOSS White, lignin-free, on-machine coated, super calendered, semi-gloss paper.	Multipurpose label paper for high quality, multicolor labels requiring good print definition and fine detail.	60	3.1	—/19	89	1.0	88	75
60# MATTE LITHO Matte-coated, lignin-free label paper.	Multipurpose, matte-coated label paper.	60	3.2	25/15	92	—	93	—
50# EDP Surface-sized, lignin-free, machine finished paper.	Multipurpose label paper for information labeling; impact and non-impact printing. Especially suitable for high-speed laser printers. Suitable for ink-jet.	50	3.9	30/11	93	—	91	—
SILVERVAC Paper-based, metalized face material with a brilliant metal layer.	High quality labels for prime labeling and special applications.	56	2.7	28/18	—	1.0	99	—
8 pt. C1S CAROLINA® TAG White, lignin-free, on-machine coated, super calendered, semi-gloss tag material.	Multipurpose tag material for high quality, multicolor labels.	123	8.0	—	94	1.2	—	60
10 pt. C1S CAROLINA® TAG White, lignin-free, on-machine coated, super calendered, semi-gloss tag material.	Multipurpose tag material for high quality, multicolor labels.	135	10.0	—	94	1.2	—	60
12 pt. C1S CAROLINA® TAG White, lignin-free, on-machine coated, super calendered, semi-gloss tag material.	Multipurpose tag material for high quality, multicolor labels.	160	12.0	—	94	1.2	—	60
8 pt. C2S CAROLINA® TAG White, lignin-free, on-machine coated, super calendered, semi-gloss tag material.	Multipurpose tag material for high quality, multicolor labels.	132	8.0	—	94	1.2	—	60
10 pt. C2S CAROLINA® TAG White, lignin-free, on-machine coated, super calendered, semi-gloss tag material.	Multipurpose tag material for high quality, multicolor labels.	158	10.0	—	94	1.2	—	60
12 pt. C2S CAROLINA® TAG White, lignin-free, on-machine coated, super calendered, semi-gloss tag material.	Multipurpose tag material for high quality, multicolor labels.	182	12.0	—	94	1.2	—	60
3.0 mil. PP MATTE WHITE TC Matte white, biaxially oriented, top-coated polypropylene film.	For prime labeling as well as thermal transfer applications where resistance to water, oil and/or chemicals is important.	35	3.0	—	—	—	90	—
2.6 mil. WHITE LABEL-LYTE White, glossy, biaxially oriented, top-coated polypropylene film.	For prime labeling applications where resistance against water, oil and/or chemicals is important. For labeling toiletries and cosmetics. Suitable for thermal transfer imprint.	30	2.6	—	—	—	80	—

*Ream = 500 sheets, 25" x 38"

FACE MATERIALS

Name and quality	Use	Substance lbs./ream*	Caliper mils.	Tensile strength lb/in. MD/CD	Brightness % ISO2470	Roughness microns PPS10	Opacity % ISO2471	Gloss % Hunter 75°
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RAFECO™ PAPER

JETLASER F-CERT PCW100 FSC-certified, 100% post-consumer waste, lignin-free, machine finished paper.	Multifunctional information labeling, specially designed for ink-jets (both single and multicolor), lasers and photocopiers.	53	4.3	22/10	92	—	88	—
50# LASER TE F-CERT FSC-certified, uncoated, machine finished paper.	Multifunctional information label paper with tamper evident feature.	50	4.2	—	—	—	—	—
LASER PLUS F-CERT PCW100 FSC-certified, 100% post-consumer waste, lignin-free, on-machine coated label paper.	Designed for continuous laser applications only. Extensively used for return address and charity labels.	50	3.7	—	88	—	92	—
TRANSFER PREMIUM LITE F-CERT FSC-certified, matte-coated, lignin-free label paper.	Ultra-smooth, coated face material for excellent thermal transfer printing and flexography.	44	2.9	26/17	87	1.8	87	—
TRANSFER PREMIUM LITE S-CERT SFI-certified, matte-coated, lignin-free label paper.	Ultra-smooth, coated face material for excellent thermal transfer printing and flexography.	44	2.9	26/17	87	1.8	87	—
TRANSFER PREMIUM EXTRA S-CERT PCW10 SFI-certified, 10% post-consumer waste, matte-coated, lignin-free label paper.	Ultra-smooth, two-side coated face material with excellent thermal transfer printing and flexography.	46	2.7	26/16	89	1.2	87	—
DIRECT THERMAL TOP F-CERT FSC-certified, top barrier-coated, smudgeproof, chemi-thermal paper with standard sensitivity.	For universal VIP labeling requiring good environmental resistance of the printed image. For retail use.	53	3.2	30/21	91	1.2	89	—
PEFC 54# RAFLACOAT PEFC-certified, white, lignin-free, on-machine coated, super calendered, semi-gloss paper.	Multipurpose label paper for high quality, multicolor labels requiring good print definition and fine detail.	54	2.7	28/14	92	1.0	87	70
60# RAFLACOAT F-CERT PCW10 FSC-certified, 10% post-consumer waste, white, lignin-free, on-machine coated, super calendered, semi-gloss paper.	Multipurpose label paper for high quality, multicolor labels requiring good print definition and fine detail.	60	3.0	32/16	88	0.9	88	75
50# DATA HS F-CERT FSC-certified, surface-sized, lignin-free, machine finished paper with high CD tensile strength.	Multipurpose label paper for information labeling; impact and non-impact printing. Especially suitable for high-speed laser printers. Suitable for ink-jet.	50	3.8	38/19	92	—	89	—
8 pt. C1S TAG F-CERT FSC-certified, white, lignin-free, on-machine coated, super calendered, semi-gloss tag material.	Multipurpose tag material for high quality, multicolor labels.	123	8.0	—	94	1.2	98	60
MATTE LITHO WSA F-CERT FSC-certified, white, high opacity, off-machine coated, super calendered, wet strength label paper.	Multipurpose wet strength label paper for applications requiring high opacity.	60	3.2	25/15	92	—	93	—
ESTATE #10 F-CERT PCW30 FSC-certified, 30% post-consumer waste, bright white, vellum finish, wet strength label paper.	High quality label paper for wine and beverage applications where image is as important as performance.	60	4.8	26/15	—	—	93.5	—
ESTATE #12 F-CERT PCW100 FSC-certified, 100% post-consumer waste, bright white, vellum finish, wet strength label paper.	High quality label paper for wine and beverage applications where image is as important as performance.	60	4.8	26/15	—	—	93.5	—
CLASSIC CREST® SOLAR WHITE F-CERT PCW100 FSC-certified, 100% post-consumer waste, wine label paper.	Premium smooth, ultra-white, uncoated, wet strength paper designed specifically for wine labeling.	60	4.4	26/22	91	—	88	—
ENVI® PCW100 WSA ENVI®, 100% post-consumer waste, wine label paper.	Premium smooth, ultra-white, wet strength paper designed specifically for wine labeling. For wine and beverage applications where image and sustainability are as important as performance.	60	4.2	25/17	90	—	93.5	—

Name and quality	Use	Substance lbs./ream*	Caliper mils.	Elongation MD/CD DIN53455
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RAFECO™ FILM

POLYESTER WHITE Recyclable, white, semi-gloss, chemically treated polyester film.	For information labeling where very good resistance against water, oil and/or chemicals is important.	37	2.0	85/50
NATUREFLEX™ Transparent, heat-sealable, compostable film.	Based on renewable resources (wood pulp from managed plantations) with novel heat-seal resins on each side. The films are static-free and offer a super wide heat-seal range for outstanding machine performance. Good gas barrier properties, and the coatings can be tailored to provide varying degrees of moisture barrier.	NATUREFLEX™ films are available in a variety of calipers and basis weights. For additional information, please contact a UPM Raflatac sales representative.		

*Ream = 500 sheets, 25" x 38"

ADHESIVES

Name and quality	Use	Typical tack N FTM 9	Typical shear (h) FTM 8	Labeling temperature min °F	Service temperature min °F	Service temperature max °F
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PERMANENT

RP31 Modified acrylic dispersion.	Permanent adhesive particularly suitable for labeling of curved surfaces. Specially designed for labeling of small diameter pharmaceutical bottles and test tubes. Very good resistance to edge lifting.	14	5.0	41	-4	176
RP37 Acrylic dispersion.	Clear, permanent adhesive specially designed for film face materials. Excellent clarity, UV-stability and water resistance. Good adhesion properties and heat resistance.	9	10.0	50	-4	212
RP51 Modified acrylic dispersion.	Permanent adhesive with good adhesion to all normal substrates, including non-polar surfaces, films and corrugated board. Good low temperature performance.	14	1.0	32	-4	176
RP54 Modified acrylic dispersion.	Permanent adhesive designed for roll-to-sheet labelstock in a wide range of applications. Very good heat resistance, which enables trouble-free performance in different laser printers. Good adhesion to corrugated board and non-polar substrates, also at low temperatures.	14	5.0	32	-4	248
RP77 Acrylic dispersion.	Permanent adhesive specifically designed for labeling of HDPE drums and other rough substrates. Used with film face materials.	12	2.0	32	-4	158
RH01 Rubber-resin hotmelt.	Permanent adhesive recommended for use in cold environments, particularly if the application surface is moist or if very high initial adhesion is required. Good low temperature performance once labeled. Very good adhesion to non-polar surfaces.	14	5.0	23	-40	122
RH09 Rubber-resin hotmelt.	Permanent adhesive recommended for applications where the surface is moist or if very high initial adhesion is required. Good low temperature performance once labeled. Very good adhesion to non-polar surfaces.	14	6.0	32	-40	122

ALL-TEMPERATURE/DEEP FREEZE

RP48AT Modified acrylic dispersion.	All-temperature/deep freeze adhesive for applications where very good adhesion at low temperatures is required. Adhesion to non-polar surfaces is very good. Remains adherent at low temperatures.	7	3.0	-20	-65	200
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REMOVABLE

RR21 Rubber-resin dispersion.	General purpose, removable adhesive with good long-term removability from a wide variety of surfaces. Can also be used in certain cases as a deep freeze adhesive.	4	2.0	14	-22	158
RR22 Rubber-resin dispersion.	Removable adhesive for rough substrates, such as corrugated cardboard, and for curved substrates. Can also be used in certain cases as a deep freeze adhesive.	5	2.0	14	-22	158
RR27 Modified acrylic dispersion.	Removable adhesive for end-uses where UV resistance is required.	3	2.0	41	-4	176
RR28 Modified acrylic dispersion.	Removable adhesive for film labels. Has good long-term removability, good clarity, UV-stability and water resistance.	3	1.0	41	14	176

ADHESIVES

Name and quality	Use	Typical tack N FTM 9	Typical shear (h) FTM 8	Labeling temperature min °F	Service temperature min °F	Service temperature max °F
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SPECIALTY

RP31C Acrylic dispersion.	Permanent adhesive designed for the most demanding pharmaceutical end-uses where non-migration properties are needed, for example on eye drop bottles. Offers good resistance against edge lifting. For film and paper labels.	13	6.0	50	-4	212
RP36ML Acrylic dispersion.	Permanent adhesive for direct labeling of foods such as fruits, vegetables and meat.	10	5.0	41	-4	212
RP36TX Acrylic dispersion.	Permanent adhesive for textile labeling. Not suitable for labeling silk, leather, suede and PVC fabrics.	7	3.0	-20	-65	200
RP40 Modified acrylic dispersion, water wash-off.	Permanent adhesive specially designed for labeling bottles and presents good water resistance in ice bucket immersion. Also designed for bottling lines where labels will be washed off with warm (about 158 °F) alkaline water.	14	2.0	41	-4	176
RP45 Acrylic dispersion.	Permanent adhesive for applications where labels need to be water-washable. Best washability is obtained with hot alkaline water. Also washable with pure hot water. Required washing time depends on labeled surface, length of time after application and washing conditions.	10	1.0	41	-4	284
RP76 Acrylic dispersion.	Ultra-clear, permanent adhesive specially designed for labelstocks with a PET liner for maximum benefit from excellent clarity. Good adhesion to polar and smooth non-polar surfaces. Excellent UV-stability and resistance to water-whitening once labeled.	9	20.0	40	-4	248
RS30 Modified acrylic dispersion.	General purpose, permanent adhesive with semi-removable properties. Specially designed for wine bottling applications. Clean removability up to 30 minutes after application. Permanent adhesion after 3 hours. Excellent water resistance in ice bucket immersion. Not recommended for neck labeling without thorough testing. Removability should be tested for each face and glass combination.	9	10.0	50	-4	212
RS32 Acrylic dispersion.	Semi-permanent adhesive suitable for applications where short-term repositionability is required.	8	10.0	41	-4	210
RW110F Modified acrylic dispersion.	Permanent adhesive with good adhesion to dry and cold bottles. Offers good water resistance in ice bucket immersion. Water wash-off at 110 °F for label removal. (Wash-off time depends on face materials, ink coverage, bottle storage and the length of time label has been adhered to bottle.) Suitable for neck labeling with adequate testing.	14	1.0	32	-4	176
RC10 Acrylic UV hotmelt.	Removable adhesive with very good long-term removability. For use with film face materials. Good clarity, UV-stability and heat resistance.	2	—	41	41	248
RC12 Acrylic radiation-cured hotmelt.	UV acrylic adhesive for open-closure film labels on wet wipe packages.	6	—	50	32	248
RC18 Acrylic UV hotmelt.	Permanent adhesive specially designed for film face materials for end-uses where very good adhesion with good chemical and temperature resistance is needed.	15	8.0	41	14	248
EB01 Modified acrylic dispersion, environmentally benign, RCA, complies with TUMI LRP-2.	Recycling compatible, permanent adhesive for roll-to-sheet applications.	14	5.0	32	-4	248
EB02 Modified acrylic dispersion, environmentally benign, RCA, complies with TUMI LRP-2.	Recycling compatible, permanent adhesive with good adhesion to all normal substrates.	14	5.0	32	-4	176
EB03 Modified acrylic dispersion, environmentally benign, RCA, complies with TUMI LRP-2.	Recycling compatible, all-temperature adhesive for applications where very good adhesion at low temperatures is required. Adhesion to non-polar surfaces is very good. Remains adherent at low temperatures.	7	3.0	-20	-65	200

LINERS

Name and quality	Use	Substance lbs./ream*	Caliper mils.	Tensile strength lbf/in. MD/CD	Transparency %
0.92 mil. PET Clear polyester film.	Specially designed for use with clear film face materials or applications requiring excellent clarity or high strength.	20	0.92	—	100
2.1 mil. HONEY GLASSINE Honey transparent glassine liner.	For all roll-to-roll applications. Good with photocell dispensing systems.	36	2.1	41/14	50
2.1 mil. WHITE GLASSINE White glassine liner.	For all roll-to-roll applications. Good with photocell dispensing systems.	36	2.1	41/14	51
35# WHITE KRAFT (2.2 mil.) White kraft liner.	For labelstock where a thin liner is needed, especially for sheeted labelstock and other VIP labeling.	35	2.2	27/11	—
2.2 mil. WHITE KRAFT White kraft liner.	For roll-to-roll applications and photocell dispensing.	35	2.2	32/14	51
2.2 mil. WHITE GLASSINE White glassine liner.	For all roll-to-roll applications. Good with photocell dispensing systems.	37	2.2	—	—
2.2 mil. HIGH DENSITY WHITE White transparent glassine liner.	Specially developed for film label materials to offer the best conversion properties. Good with photocell dispensing systems.	39	2.2	42/17	52
2.5 mil. HIGH DENSITY WHITE White transparent glassine liner.	Specially developed for film label materials to offer the best conversion properties.	45	2.5	46/19	52
2.5 mil. WHITE KRAFT White kraft liner.	For roll-to-roll applications and photocell dispensing.	42	2.5	35/—	63
40# NATURAL KRAFT (2.5 mil.) Natural kraft liner.	For roll-to-roll applications and photocell dispensing.	40	2.5	42/22	—
40# WHITE KRAFT (2.5 mil.) White kraft liner.	For roll-to-roll applications and photocell dispensing.	40	2.5	37/17	—
2.8 mil. WHITE KRAFT White kraft liner.	For VIP labelstock where good lay-flat properties are required. Suitable for fanfold applications.	45	2.8	45/15	—
3.2 mil. WHITE KRAFT White, machine finished kraft liner.	Specially developed for continuous EDP applications. Good for folding and friction feed applications.	51	3.2	45/18	—
3.2 mil. HI-WHITE KRAFT High bright, one-side coated white kraft liner.	For lay-flat applications that require excellent reverse side printability.	53	3.2	40/19	—
3.2 mil. WHITE KRAFT VIP White kraft liner.	Low transparency for VIP film applications offering excellent conversion properties.	55	3.2	38/—	70
60# WHITE KRAFT (3.2 mil.) White, one-side coated kraft liner.	For roll-to-sheet/VIP labeling. Suitable for fanfold applications.	55	3.2	38/—	—
44# PK (3.4 mil.) Brown polycoated kraft liner.	For roll-to-roll applications requiring additional strength and tolerance in moist environments.	44	3.4	30/15	—
3.6 mil. WHITE KRAFT White, one-side coated kraft liner	For roll-to-sheet/VIP labeling applications.	56	3.6	—	—
5.7 mil. WHITE KRAFT White kraft liner.	For lay-flat vinyl applications. Offers excellent feedability on sheet-fed applications.	85	5.7	62/30	—
1.0 mil. PET Clear polyester film liner.	Specially designed for use with clear film face materials or applications requiring excellent clarity.	23	1.0	—	100
1.2 mil. PET Clear polyester film liner.	Specially designed for use with clear film face materials or applications requiring excellent clarity.	26	1.2	—	100

*Ream = 500 sheets, 24" x 36"

RECOMMENDED USES

UPM RAFLATAC ADHESIVES

Specific surfaces	RP31	RP37	RP51	RP54	RP77	RH01	RH09	RP48AT	RR21	RR22	RR27	RR28	RP31C	RP36ML	RP36TX	RP40	RP45	RP76	RS30	RS32	RW110F	RC10	RC12	RC18	EB01	EB02	EB03	
Convex, diameter 1 1/4"	A	A	B	B	C	C	C	C	C	A	C	B	A	B	B	C	A	A	A	A	B	B	C	A	B	B	C	
Porous, rough	C	C	B	B	A	A	A	B	C	B	B	C	C	B	C	C	C	C	C	C	B	B	C	A	B	B	B	
Smooth, even	A	A	A	A	A	A	A	A	B	B	B	B	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	
Low surface tension (PE, PP)	B	B	A	B	B	A	A	B	A	A	A	B	B	B	B	C	A	B	B	B	A	A	A	A	B	A	B	
High surface tension (glass, metal)	A	A	A	A	A	A	A	B	B	B	B	A	A	A	A	A	A	A	A	A	A	A	A	B	A	A	B	
Cardboard adhesion	B	C	A	B	B	A	A	B	B	A	A				C				C	C	A			B	B	A	B	
Moist adhesion	C	B	B	B	C	A	A	B	C	B		C	C	C		B	B	B	B	B	B	A	B	B	B	B	B	
Textile adhesion	B	B	C	B											A				B	B				B	B	C		
Hot, >212 °F	B	C	C	A	C				C			C	B	C	B	B	C	A	C	C	C	A	B	A	A	C		
Chill, 32° to 41 °F	C	C	B		B	A	A	A	B	A	B	C	B	B	C	B	A	C	C	C	C	B	B	C	B		B	A
Cold, -4° to 32 °F		C	C		C	B	B	A	C	B	B		C	C	C		A	C	C	C	C	B		C		C	A	
Outdoor use		B	C	C	A	A	A	B	C	C	B	C			C		C		B	B	C			A	C	C	B	
Wash-off																A	A				A							
Pharmaceutical end-uses	A	A		B									A						B	A					B			
Autoclave sterilization	A	A	C	C									A					A	A	A	C			A	C	C		
ETO gas sterilization	A	A	C	C									A					A	A	A	C			A	C	C		
Gamma sterilization	A	A	B	B									A					A	A	A	B			A	B	B		
Pasteurization		C											C					C	B	B				B				
Water resistance	C	A	C	C	A	A	A	C	B	B		A	A	C	B	C		A	A	B	C	A	B	A	C	C	C	
Solvent resistance	C	B	C	C	C	C	C		C	C			C		C				C	C	C		A	A	C	C		
Immersion in hot liquids		C											C						C	C			C	B				
Soft PVC resistance	C	C			B			B					C						C	C			C	C			B	
Indirect food contact	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
Direct contact with dry/moist/non-fatty food	B	A	A	B	A	A	A	A					B	A	A			A	A	A				A	B	A	A	
Direct contact with fatty food														A														

Key: A) Excellent suitability B) Average suitability C) Adequate suitability (pre-testing recommended)

WARRANTY

Our recommendations are based on our most up-to-date knowledge and experience. As the products are used outside our control we cannot take responsibility for any possible damage that may be caused through their use. This brochure replaces all previous publications. All information subject to change without notice.

STORAGE AND PACKAGING

UPM Raflatac pressure sensitive labelstock with RP31, RP51, RP54, EB01 or EB02 adhesive can be stored for at least four (4) years after production in conditions +68 °F/RH 50%, if not stated otherwise in the technical specifications. UPM Raflatac pressure sensitive labelstock with RP37, RP77, RH01, RH09, RR21, RR22, RR27, RR28, RP31C, RP36ML, RP36TX, RP40, RP76, RS30, RS32, RW110F, RC10, RC12 or RC18 adhesive can be stored for at least two (2) years after production in conditions +68 °F/RH 50%, if not stated otherwise in the technical specifications. UPM Raflatac pressure sensitive labelstock with RP48AT, RP45 or EB03 adhesive can be stored for at least one (1) year after production in conditions +68 °F/RH 50%, if not stated otherwise in the technical specifications. However, when paired with Direct Thermal Eco face material, RP48AT can only be stored for six (6) months in conditions +68 °F/RH 50%. For other adhesives, please refer to the specific technical product information. Rolls are wrapped in PE film for moisture protection prior to palletization.

INFORMATION ABOUT ADHESIVES

All UPM Raflatac adhesives, except RH and RC types, are water-based dispersion adhesives that combine good convertibility with excellent aging characteristics. For other adhesives, please refer to the specific technical product information.

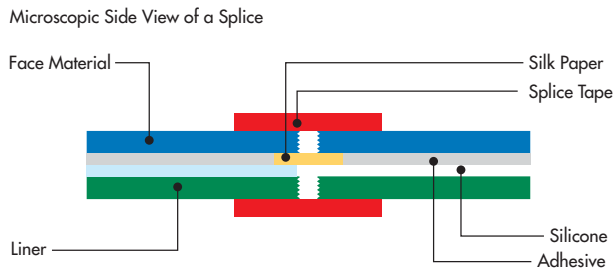
FINISHING AND PACKAGING

FINISHING SPECIFICATIONS

- Orders will be considered complete if the quantities shipped are +/- 10% of the quantity ordered. This also relates to roll length.
- Slitting tolerances are +/- 1/32".
- Minimum roll width is 3". Maximum roll width is 54".
- a. Minimum roll length is 2,500'. We can offer precise roll lengths; however, these rolls may have extra splices.
b. Precise roll lengths can be offered only when the full master width is trimmed; however, these rolls may contain extra splices.
- 3" cores are standard. We recommend 6" cores for all material that is required to lay flat for sheeting.

SPLICE SPECIFICATIONS

- All UPM Raflatoc splices are diagonal (22 degree) butt splices.
- Maximum number of splices per roll:
5,000 ft. roll – up to 2 splices 15,000 ft. roll – up to 4 splices
10,000 ft. roll – up to 3 splices 20,000 ft. roll – up to 4 splices
- No splice will be within 500 feet of another. Neither will it be less than 750 feet from the start or end of the roll.
- A 1.5" wide, ruby red tape is used on the face material and liner to identify the splice location. In addition, a 0.625" wide PE film is inserted to prevent the face tape and liner tape from adhering to one another.



PACKAGING SPECIFICATIONS

- Pallet sizes: We have the following pallet sizes available:
31" x 53"
32" x 48"
32" x 32"
36" x 36"
40" x 40"
40" x 48"
44" x 44"
- a. Cradle packing is available on rolls 5,000' or longer. These rolls are packed on either 32" x 48" pallets, 40" x 48" pallets or 31" x 53" pallets.
b. Cradle packing: A minimum of 32" total width per order position.
c. Cradle packing: A minimum roll width of 6" will be cradle packed.
- Trimless requirements: A minimum of 12" (20" in CA) total width per order position (32" if cradle packed).
- Pallet type – Standard pallet with four-way entry.
- Each roll of material will be stretch-wrapped in stacks, placed on the pallet and the entire pallet will be stretch-wrapped to secure the products.

STORAGE

To ensure that your labelstock performs at its best during printing and end-use, please follow these guidelines:

- Store at a constant temperature and avoid damp or hot conditions.
- Recommended conditions: temperature 68 °F, relative humidity 50%.
- Continuous exposure of face materials to sunlight should be avoided.





www.upmraflatac.com