UPM Raflatac labelstock products

UPM RAFLATAC

LABELSTOCK FROM THE PRO LABEL COMPANY

As the Pro Label Company, UPM Raflatac focuses its technological and human resources on the label. UPM Raflatac works closely with converters and end-users to develop products for modern printing techniques with tailored functionality for every application.

This brochure presents UPM Raflatac's entire product range according to the component face materials, adhesives and backings. Each is described in terms of its qualities, suggested areas of application and technical details in full.

Being Pro Label means showing that a label makes a world of difference. This highly accessible reference provides all the information you need to help you do just that.

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UPM RAFLATAC FACE MATERIALS

UNCOATED PAPERS

Name and quality	Use	Substance g/m²	Caliper µm	Tensile strength kN/m MD/CD	Brightness ISO (%)	Roughness PPS 10	Roughness ml/min Bendtsen	Opacity %	Gloss % Hunter 75°	Stiffness MD/CD (Kodak)
VELLUM TTR Surface-sized, wood-free SC paper.	Universal label paper for information and product labelling. Suitable for thermal transfer printing.	70	66	5.0 2.3	92	2.6	35	87	15	0.18 0.10
DATA Surface-sized, wood-free MF paper.	Multipurpose label paper for information labelling; impact and non-impact printing. Suitable for laser and ink jet.	70	90	5.5 2.0	93	5.0	200	90	–	0.35 0.12
EDP 50 Surface-sized, wood-free MF paper.	EDP label paper with high absorbancy, also suitable for stencil marking, e.g. franking labels.	80	105	4.9 1.8	95	–	220	92	–	0.47 0.18

GLOSS-COATED PAPERS

RAFLACOAT White, wood-free, on-machine-coated SC mid-gloss paper.	Multipurpose label paper for high-quality multicolour labels requiring good print definition and fine detail.	78	69	5.0 2.5	90	1.0	–	87	70	0.20 0.10
RAFLABRITE White, wood-free, on-machine-coated SC mid-gloss paper.	Multipurpose label paper for high-quality multicolour labels requiring good print definition and fine detail. The stiffness of the paper also provides good application characteristics for large labels.	85	71	5.6 2.9	92	0.7	–	89	78	0.25 0.15
RAFLALITE On-machine-coated, wood-free SC mid-gloss paper.	Multipurpose low-weight label paper for high-quality product labels requiring good print definition and fine detail. Suitable for small packages or cylindrical shapes such as toys, cosmetics and pharmaceutical products. Recommended for fruit labels.	60	53	4.0 2.0	90	1.0	–	81	70	0.11 0.05
RAFLAGLOSS Off-machine-coated glossy art paper.	High-gloss label paper for top-quality multicolour product labels. Exceptional whiteness offers superb contrast.	80	64	4.8 2.7	90	0.5	–	86	90	0.22 0.10
RAFLAGLOSS 115 Off-machine-coated high gloss-paper.	Multipurpose label paper for high-quality labels requiring good print definition and fine detail. For applications where extra stiffness and good opacity are required.	115	100	7.4 4.2	86	0.8	–	–	90	0.50 0.30
FOODGLOSS Coated wood-free grease-repellent paper.	Glossy label paper for labelling applications where resistance against grease is required, e.g. food labelling.	80	77	5.6 2.7	82	1.2	–	84	66	–
PHARMAGLOSS Off-machine-coated, wood-free, SC glossy paper.	Specially developed for the pharmaceutical industry and for labelling products with small diameters and curved surfaces. High flexibility.	65	59	4.3 2.2	88	1.0	–	85	72	0.12 0.07

UPM RAFLATAC FACE MATERIALS

GLOSS-COATED PAPERS

Name and quality	Use	Substance g/m²	Caliper µm	Tensile strength kN/m MD/CD	Brightness ISO (%)	Roughness PPS 10	Roughness ml/min Bendtsen	Opacity %	Gloss % Hunter 75°	Stiffness MD/CD (Kodak)
CASTGLOSS Cast-coated, wood-free paper with mirror-like gloss finish.	High-gloss label paper for demanding multicolour product labels.	80	80	5.0 2.9	87	0.7	–	88	89	0.42 0.25

BOARDS

COATED BOARD Coated, wood-free, mid-gloss board.	Labels where very high stiffness is needed.	170	205	–	90	0.9	–	97	48	–
COATED BOARD 150 Coated, wood-free, mid-gloss board.	Labels where very high stiffness is needed.	150	117	–	99	0.7	–	99	74	–
CASTGLOSS BOARD 130 Castcoated, high gloss board.	Product labels of high rigidity and high gloss.	130	140	6.5 3.9	88	0.7	–	95	–	–
CASTGLOSS BOARD 170 Castcoated, high gloss board.	Product labels of high rigidity and high gloss.	170	190	8.5 5.2	88	0.7	–	97	–	–

MATT-COATED PAPERS

PHARMAMATT Off-machine-coated, matt, wood-free SC paper.	Specially developed for the pharma-ceutical industry and for labelling products with small diameters and curved surfaces. High flexibility.	65	61	4.3 2.2	90	1.2	–	86	25	0.11 0.07
COPYFACE 57 Colour-reactive, coated front.	For use in combination with coated paper to obtain carbonless copies; for formula sets for shipping documents, address labels, etc.	57	65	–	88	–	–	77	–	–

COLOURED PAPERS

FLUOR: RED, GREEN, LEMON, ORANGE, PINK Wood-free paper with fluorescent coating.	Eye-catching display labels for price marking and promotional use. Information labels printed on lasers and copiers.	77	77	5.5 3.0	–	3.9	–	89	–	–
COLOURED VELLUM: BLUE, GREEN, RED, YELLOW Wood-free, pulp-dyed SC paper.	Colour labels for price marking and promotional use. Information labels printed on lasers and copiers.	80	92	5.5 3.0	–	4.8	–	–	–	–
RAFLACHROM GOLD Matt, gold-coated wood-free label paper.	Luxury eye-catching labels for promotional and decorative use.	90	91	8.1 3.3	–	–	–	–	–	–
SATIN GOLD Wood-free paper, lacquered on one side.	Eye-catching display labels for promotional and decorative use. Suitable for both rotary and flat bed conversion.	90	78	4.7	–	1.9	–	–	–	–
SATIN SILVER Wood-free paper, lacquered on one side.	Eye-catching display labels for promotional and decorative use. Suitable for both rotary and flat bed conversion.	90	70	4.7	–	1.9	–	–	–	–
SATIN BLACK Coated, wood-free paper, black on one side.	Display labels for promotional and decorative use.	83	87	4.3	–	2.5	–	–	–	–

UPM RAFLATAC FACE MATERIALS

WET-STRENGTH PAPERS

Name and quality	Use	Substance g/m²	Caliper µm	Tensile strength kN/m MD/CD	Brightness ISO (%)	Roughness PPS 10	Roughness ml/min Bendtsen	Opacity %	Gloss % Hunter 75°	Stiffness MD/CD (Kodak)
VELLUM EMBOSSED WSA Slightly mechanical, wet-strength treated alkali-resistant linen-embossed paper, coated on one side.	High-quality label paper designed for bottle, jar and can labelling. Suitable for beverage labelling where wash-off properties are required.	90	90	7.5	85	–	–	91	10	–
ANTIQUE WHITE WSA Wet-strength, alkali-resistant, mouldproof, wood-free, narrow-ribbed, white machine-finished paper.	High-quality label paper designed for bottle, jar and can labelling. Suitable for beverage labelling where wash-off properties are required.	90	130	2.9	–	–	850	90	–	0.53 0.35
ANTIQUE WHITE SMOOTH WSA Wet-strength, alkali-resistant, mouldproof, wood-free, narrow-ribbed, white machine-finished paper.	High-quality label paper designed for bottle, jar and can labelling. Suitable for beverage labelling where wash-off properties are required.	90	130	2.9	–	–	570	90	–	0.53 0.35
ANTIQUE WHITE PURE WSA Wet-strength, alkali-resistant, wood-free, narrow-ribbed, white machine-finished paper.	High-quality label paper designed for bottle, jar and can labelling. Suitable for beverage labelling where wash-off properties are required.	80	122	3.7 2.2	–	–	–	88	–	0.65 0.39
ANTIQUE CREAM WSA Wet-strength, alkali-resistant, mouldproof, wood-free, narrow-ribbed, light-coloured machine-finished paper.	High-quality label paper designed for bottle, jar and can labelling. Suitable for beverage labelling where wash-off properties are required.	90	130	2.9	–	–	850	90	–	0.53 0.35
ANTIQUE CREAM SMOOTH WSA Wet-strength, alkali-resistant, mouldproof, wood-free, narrow-ribbed, light-coloured machine-finished paper.	High-quality label paper designed for bottle, jar and can labelling. Suitable for beverage labelling where wash-off properties are required.	90	130	2.9	–	–	570	90	–	0.53 0.35
MULTIPRINT WHITE WSA Surface-sized wood-free SC paper, wet-strength and alkali-resistant.	High-quality label paper designed for bottle, jar and can labelling. Suitable for beverage labelling where wash-off properties are required.	90	112	–	99	–	–	91	–	–
MULTIPRINT IVOIRE WSA Surface-sized wood-free SC paper, wet-strength and alkali-resistant.	High-quality label paper designed for bottle, jar and can labelling. Suitable for beverage labelling where wash-off properties are required.	90	112	–	–	–	–	91	–	–

Name and quality	Use	Substance g/m²	Caliper µm	Tensile strength kN/m MD/CD	Brightness ISO (%)	Roughness PPS 10	Roughness ml/min Bendtsen	Opacity %	Gloss % Hunter 75°	Stiffness MD/CD (Kodak)
VELMART WHITE WSA Wood-free machine-finished paper. Wet-strength treated, mouldproof and alkali-resistant embossed paper.	High-quality label paper designed for bottle, jar and can labelling. Suitable for beverage labelling where wash-off properties are required.	90	118	4.4 2.5	99	–	–	88	–	1.70 0.90
NATURAL CANAFIN WSA Uncoated grained (felt) paper, wet-strength treated and alkali-resistant.	High-quality label paper designed for bottle, jar and can labelling. Suitable for beverage labelling where wash-off properties are required.	90	132	5.4 3.6	124	–	–	89	–	–
FLEUR DE COTON WSA Wet-strength, alkali-resistant, textured, white machine-finished paper.	High-quality label paper designed for bottle, jar and can labelling. Suitable for beverage labelling where wash-off properties are required.	95	132	–	–	–	–	92	–	–
FLEUR DE COTON IVOIRE WSA Wet-strength, alkali-resistant, textured, lightly coloured machine-finished paper.	High-quality label paper designed for bottle, jar and can labelling. Suitable for beverage labelling where wash-off properties are required.	95	128	–	–	–	–	90	–	–
RAFLASILK WSA White, wood-free wet-strength, alkali-resistant, machine-coated SC midgloss paper.	For high-quality multicolour labels requiring good print definition and fine detail. Suitable for beverage labelling where wash-off properties are required.	80	74	4.4 2.5	86	0.8	–	86	70	–
RAFLAGLOSS WSA Off-machine-coated, wood-free, wet-strength, alkali-resistant glossy art paper.	Special high-gloss label paper for high-quality labels, especially suitable for beverage labelling where wash-off properties are required.	90	74	5.8 3.2	88	0.6	–	89	89	0.36 0.15
CASTGLOSS WSA 80 Cast-coated, wood-free, wet-strength, alkali-resistant paper.	High-gloss label paper for high-quality labels. Especially suitable for beverage labelling where wash-off properties are required.	83	83	5.2 2.9	88	–	–	88	83	–
RAFLAMATT WSA Off-machine-coated, wood-free, wet-strength, alkali-resistant matt art paper.	For high-quality labels with multicolour printing. For labels requiring the highest-quality thermal transfer. Especially suitable for beverage labelling where wash-off properties are required.	90	81	5.4 2.8	92	1.2	–	89	–	–
KRAFT BROWN 70 Standard ribbed, machine glazed, brown kraft paper. Made with long-fibric resinous pulp.	Especially developed for labels where an authentic, natural and ecological look is needed.	70	98	6.7 3.0	–	–	–	93	–	–

UPM RAFLATAC FACE MATERIALS

THERMALS ECO

Name and quality	Use	Substance g/m² ISO 536	Caliper µm ISO 534	Tensile strenght MD/CD kN/m ISO 1924/1	Roughness PPS 10	Opacity %	Brightness min (%) ISO 2470
THERMAL ECO 300 Chemi-thermal paper with high sensitivity. No topcoat.	For information labelling in dry environments such as POS price marking and other retail use. Very limited resistance to thermal image scratching and smudging. Avoid contact with plasticizers (PVC) and fat.	71	79	4.7 2.3	1.7	90	90
THERMALITE ECO 300 Thin chemi-thermal paper with high sensitivity. No topcoat.	For information labelling in dry environments such as POS price marking and other retail use. Very limited resistance to thermal image scratching and smudging. Avoid contact with plasticizers (PVC) and fat. With Honey Glassine 50 backing paper, it forms a thin combination specially developed for small portable and desktop printers.	55	63	3.0 1.5	1.7	82	90

TOP

THERMAL TOP 200 Chemi-thermal paper with standard sensitivity, barrier-coated on top side.	Information labelling requiring good scratch resistance from the bar code to guarantee excellent scanning properties in dry end-use environments, e.g. in retail, transport and logistics.	72	79	4.8 2.3	1.6	89	90
THERMAL TOP P 200 Chemi-thermal paper with standard sensitivity, barrier-coated on both sides.	For universal information and product labelling requiring good environmental resistance from the printed image in end-use areas such as food, retail, transport and logistics.	80	80	4.9 2.3	1.4	88	91
THERMAL TOP P 300 Chemi-thermal paper with high sensitivity, barrier-coated on both sides.	For universal information and product labelling requiring good environmental resistance from the printed image in end-use areas such as food, retail, transport and logistics.	77	78	4.9 2.3	1.4	91	91
THERMALITE TOP P 300 Thin, chemi-thermal paper with high sensitivity, barrier-coated on both sides.	For information labelling requiring high sensitivity performance. With Honey Glassine 50 backing paper, it forms a thin combination specially developed for small portable and desktop printers.	57	60	3.0 1.5	1.4	83	91
THERMAL DURABLE P 300 Chemi-thermal paper with high sensitivity, barrier-coated on both sides.	For universal information and product labelling requiring extremely good environmental and heat resistance from the printed image.	77	81	4.7 2.2	1.4	89	90
SYNTHERMAL P 200 Chemi-thermal PP film with standard sensitivity, barrier-coated on both sides.	For information labelling requiring good water- and tear-resistance. Especially suitable for luggage tags, manufacturing labels, short-term outdoor use and other applications requiring durable filmic labels.	86	105	–	–	93	86

SHELF LIFE FOR THERMAL ECO
A) Dispersion adhesives (except RP 48, RR 21, RR 22). The laminate is guaranteed for two years if stored as recommended.
B) RR 21, RR 22 and hot melt adhesives.The laminate is guaranteed for one year if stored as recommended.
C) Printed labels are guaranteed for one year if stored as recommended.
Face paper has a slight tendency to discolour, but this does not affect the scannability of the bar codes.
D) With RP 48 guaranteed for 6 months.

SHELF LIFE FOR THERMAL TOP
A) Dispersion adhesives (except RP 48, RR 21, RR 22). The laminate is guaranteed for two years if stored as recommended.
B) RP 48, RR 21, RR 22 and hot melt adhesives.The laminate is guaranteed for one year if stored as recommended.
C) Printed labels are guaranteed for one year if stored as recommended.
Face paper has a slight tendency to discolour, but this does not affect the scannability of the bar codes.

Name and quality	Use	Substance g/m²	Caliper µm	Tensile strength kN/m MD/CD	Brightness ISO (%)	Roughness PPS 10	Opacity %	Gloss % Hunter 75°	Stiffness MD/CD (Kodak)
TRANSFER MATT Wood-free, off-machine-coated label paper with smooth, matt surface.	Multipurpose labels with matt finish designed for thermal transfer printing with good bar code resolution.	85	75	5.0 2.4	93	1.3	88	25	0.30 0.14
TRANSFER XTRA Wood-free coated label paper. Double coated on one side, matt finish.	Tailored for thermal transfer printing applications to achieve the highest character definition and bar code resolution.	70	70	4.5 2.1	92	1.2	88	25	0.20 0.10
SYNTRANSFER Matt-coated, white, highly opaque polyethylene film.	Filmic label material for information labelling with excellent overprinting properties, especially with thermal transfer and cold laser.	115	116	–	–	–	94	–	–
THERMAL TRANSFER BOARD 170 Wood-free matt board, coated both sides.	High-rigidity labels for thermal transfer.	170	145	–	92	1.3	98	30	–
THERMAL TRANSFER BOARD 200 Wood-free matt board, double-coated one side.	High-rigidity labels for thermal transfer.	200	230	–	91	1.2	98	40	–

UPM RAFLATAC FACE MATERIALS

A4 PAPERS

Name and quality	Use	Substance g/m²	Caliper µm	Tensile strength kN/m MD/CD	Brightness ISO (%)	Roughness PPS 10	Opacity %	Gloss % Hunter 75°	Stiffness MD/CD (Kodak)
JETLASER Wood-free machine-finished paper.	Multifunctional information labelling, especially designed for ink jets, lasers and copiers.	70	90	5.2 2.2	98	5.0	92	–	–
JETOPAQUE Wood-free machine-finished paper with greyish reverse side for increased opacity.	Multifunctional information labelling, especially designed for ink jets, lasers and copiers.	70	90	5.2 2.2	80	5.0	98	–	–
JETLASER OPAQUE Wood-free machine-finished paper with black reverse side for increased opacity.	Multifunctional information labelling, especially designed for ink jets, lasers and copiers.	70	90	5.2 2.2	80	5.0	100	–	–
LASERPLUS Wood-free machine-finished paper.	Multifunctional information labelling, especially designed for ink jets, lasers and copiers.	70	91	5.2 2.1	89	6.0	90	–	–
JETLITE Wood-free machine-finished paper.	Multifunctional information labelling for ink jets, lasers and copiers. Flexible face material, optimal for hospital/laboratory applications.	56	65	5.2 2.5	111	4.0	88	–	–
JETBLUE JETGREEN JETLEMON JETRED Wood-free, pulp-dyed, machine-finished paper.	Information labels printed on ink jets, lasers and copiers.	80	104	5.5 3.2	–	4.3	98 99 88 93	–	–
LASERGLOSS Cast-coated, wood-free paper with mirror-like gloss finish.	For high-quality multicolour copier and laser printing.	80	88	6.0 3.5	84	0.7	90	–	–
JETCOLOR Special-coated matt-finished paper.	Multicolour ink-jet printing, high resolution. Print properties of face extend to photo-quality level.	90	115	5.6 3.3	90	3.6	89	–	–
JETGLOSS Special-coated gloss-finished paper.	Multicolour ink-jet printing, high resolution. Print properties of face extend to photo-quality level.	85	107	3.9 3.2	95	1.3	90	–	–

Name and quality	Use	Substance g/m²	Caliper µm	Tensile strength kN/m MD/CD	Brightness ISO (%)	Roughness PPS 10	Opacity %	Gloss % Hunter 75°	Stiffness MD/CD (Kodak)
PE LASER WHITE White, matt, highly pigmented, computer-imprintable polyethylene film.	Information labels imprinted by offset, hot and cold laser, dot matrix and laser. Recommended for drum and logistics labelling.	115	178	–	–	–	92	–	–
POLYLASER MATT WHITE White, matt-coated, heat-stabilized polyester film.	Information labels imprinted by offset, hot and cold laser, dot matrix and laser. Recommended for drum and logistics labelling.	75	58	–	–	–	88	–	–
POLYLASER MATT TRANSPARENT Transparent, matt-coated, heat-stabilized polyester film.	Information labels imprinted by offset, hot and cold laser, dot matrix and laser. Recommended for drum and logistics labelling.	56	43	–	–	–	–	–	–
POLYLASER GLOSS WHITE White, gloss-coated heat stabilized polyester film.	Information labelling where imprinting is done by laser and copier.	72	55	–	–	–	–	–	–
POLYLASER GLOSS CLEAR Transparent, gloss-coated heat-stabilized polyester film.	Information labelling where imprinting is done by laser and copier.	72	55	–	–	–	–	–	–
POLYLASER MATT SILVER Matt-coated, heat-stabilized metallized film.	Information labelling where imprinting is done by monochrome laser and copier.	80	58	–	–	–	100	–	–
POLYJET GLOSS CLEAR Transparent gloss-coated polyester film.	Monochrome and multicolour ink-jet printing.	110	75	–	–	–	–	–	–
POLYJET MATT WHITE White, matt-coated polyester film.	Monochrome and multicolour ink-jet printing.	130	125	–	–	–	–	–	–
POLYJET GLOSS WHITE White, gloss-coated polyester film.	Monochrome and multicolour ink-jet printing.	90	70	–	–	–	–	–	–
POLYJET MATT TRANSPARENT Translucent, matt-coated polyester film.	Monochrome and multicolour ink-jet printing.	60	56	–	–	–	–	–	–
POLYJET SILVER Gloss-coated, metallized polyester film.	Monochrome and multicolour ink-jet printing.	115	92	–	–	–	–	–	–
POLYJET GOLD Gloss-coated, metallized polyester film.	Monochrome and multicolour ink-jet printing.	116	92	–	–	–	–	–	–
POLYJET STARDUST Gloss-coated, polyester film with diffractive pattern.	Monochrome and multicolour ink-jet printing.	83	64	–	–	–	–	–	–

Name and quality	Use	Substance g/m² ISO 536	Caliper µm DIN 534	Tensile strength kN/m MD/CD	Gloss % Hunter 75°	Opacity % ISO 2471
FOIL BRIGHT GOLD 70 Paper-backed glossy aluminium foil. A thin aluminium foil laminated to a wood-free paper.	High-quality gloss labels for product labelling, advertising or decorative purposes.	70	60	4.0 2.7	–	–
FOIL BRIGHT SILVER 70 Paper-backed glossy aluminium foil. A thin aluminium foil laminated to a wood-free paper.	High-quality gloss labels for product labelling, advertising or decorative purposes.	70	60	4.0 2.7	–	–
FOIL MATT GOLD 70 Paper-backed matt aluminium foil. A thin aluminium foil laminated to a wood-free paper.	High-quality labels for product labelling, advertising or decorative purposes.	70	60	4.0 2.7	–	–
FOIL MATT SILVER 70 Paper-backed matt aluminium foil. A thin aluminium foil laminated to a wood-free paper.	High-quality labels for product labelling, advertising or decorative purposes.	70	60	4.0 2.7	–	–
GOLDVAC A paper-based metallized face material with a brilliant metal layer.	High-gloss labels for product labelling and special applications.	76	76	5.7 3.2	–	–
SILVERVAC A paper-based metallized face material with a brilliant metal layer.	High-gloss labels for product labelling and special applications.	83	66	4.9 3.2	–	–

Name and quality	Use	Substance g/m² ISO 536	Caliper µm	Tensile strength kN/m MD/CD	Gloss % 60°	Opacity % ISO 2471
PE GLOSS WHITE 85 White, glossy, corona-treated polyethylene film.	Product labels for applications where squeezability is required. E.g. shampoo bottles, cosmetics, detergents and flexible food packages.	85	85	20 17	75	80
PE GLOSS CLEAR 85 Transparent, glossy, corona-treated polyethylene film.	Product labels for applications where squeezability is required. E.g. shampoo bottles, cosmetics, detergents and flexible food packages.	80	85	19 19	85	–
PE GLOSS WHITE White, glossy, corona-treated polyethylene film.	Product labels for applications where squeezability is required. E.g. shampoo bottles, cosmetics, detergents, flexible food packages and containers in industrial applications.	94	96	19 16	72	81
PE GLOSS WHITE RH White, glossy, non-topcoated polyethylene film.	For product labelling in applications where resistance against water, oil and chemicals is important. Used in combination with hot melt adhesives.	92	95	19 15	65	80
PE GLOSS CLEAR Transparent, glossy, corona-treated polyethylene film.	Product labels for applications where squeezability is required. E.g. shampoo bottles, cosmetics, detergents, flexible food packages and containers in industrial applications.	89	96	20 17	75	–
PE GLOSS WHITE 150 White, glossy, corona-polyethylene	Product labelling in applications requiring large, unshaped labels. For labelling chemical treated film. and industrial goods, e.g. drums and pails.	135	140	20 15	70	88
PE GLOSS CLEAR 150 Transparent, glossy, corona-treated polyethylene film.	Product labelling in applications requiring large, unshaped labels. For labelling chemical and industrial goods, e.g. drums and pails.	130	140	20 16	75	–
PE GLOSS WHITE TC 85 White, glossy, top-coated polyethylene film.	Product labels for applications where squeezability is required. E.g. shampoo bottles, cosmetics, detergents and flexible food packages.	86	86	21 20	75	80
PE GLOSS CLEAR TC 85 Transparent, glossy, top-coated polyethylene film.	Product labels for applications where squeezability is required. E.g. shampoo bottles, cosmetics, detergents and flexible food packages.	80	85	20 21	90	–
PE GLOSS WHITE TC White, glossy, top-coated polyethylene film.	Product labels for applications where squeezability is required. E.g. shampoo bottles, cosmetics, detergents, flexible food packages and containers in industrial applications.	95	97	19 16	70	85
PE GLOSS CLEAR TC Transparent, glossy, top-coated polyethylene film.	Product labels for applications where squeezability is required. E.g. shampoo bottles, cosmetics, detergents, flexible food packages and containers in industrial applications.	90	97	20 17	85	–

Name and quality	Use	Substance g/m² ISO 536	Caliper µm	Tensile strength kN/m MD/CD	Gloss % 60°	Opacity % ISO 2471
PE GLOSS WHITE TC 150 White, glossy, top-coated polyethylene film.	Product labelling in applications requiring large, unshaped labels. For labelling chemical and industrial goods, e.g. drums and pails.	134	141	20 15	85	88
PE GLOSS CLEAR TC 150 Transparent, glossy, top-coated polyethylene film.	Product labelling in applications requiring large, unshaped labels. For labelling chemical and industrial goods, e.g. drums and pails.	131	141	20 16	80	–
PE MATT TRANSPARENT 80 Transparent, semi-matt, corona-treated polyethylene film.	Product labels for squeezable packages where a semi-matt appearance is required. E.g. shampoo bottles and other products for personal care.	75	80	28 26	18	–
PE MATT TRANSPARENT TC 100 Transparent, matt, top-coated polyethylene film.	Product labels for packages where a matt look and squeezability are required. E.g. packages in industrial applications as well as shampoo bottles and other products for personal care.	91	95	18 17	7	–
PE MATT WHITE TC 100 White, matt, top-coated polyethylene film.	Product labels for packages where a matt look and squeezability are required. E.g. packages in industrial applications as well as shampoo bottles and other products for personal care.	94	95	18 16	7	80
PE MATT WHITE TC 85 White, matt, top-coated polyethylene film.	Product labels for packages where a matt look and squeezability are required. E.g. shampoo bottles and other products for personal care.	88	85	19 22	6	85
PE MATT TRANSPARENT TC 85 Transparent, matt, top-coated polyethylene film.	Product labels for packages where a matt look and squeezability are required. E.g. shampoo bottles and other products for personal care.	83	85	19 22	6	–
PE SILVER TC 85 Direct-metallized, high-gloss, top-coated polyethylene film.	High-quality product labels for squeezable packages in promotional labelling. E.g. cosmetics and other products in personal care, and flexible food packages.	81	86	19 15	–	–
POLYPRINT 110 Matt-coated, white polyethylene film.	Product and information labelling. Excellent printing and overprinting properties with e.g. thermal transfer, cold laser, dot-matrix.	110	135	43 33	–	93
POLYPRINT 100 Matt-coated, white polyethylene film.	Product and information labelling. Excellent printing and imprinting properties with thermal transfer, cold laser and dot-matrix.	80	105	45 35	–	93
POLYMATT WINE Matt-coated, white high-density polyethylene film.	Permanent bottle labelling applications. Excellent printing and ink drying with conventional printing methods, excellent thermal transfer with a range of ribbons.	60	94	36 34	–	91

Name and quality	Use	Substance g/m² ISO 536	Caliper µm	Tensile strength kN/m MD/CD	Gloss % 60°	Opacity % ISO 2471
PP CLEAR 30 Transparent, biaxially oriented, corona-treated polypropylene film.	Mainly overlaminated labels for beverage, food and pharma packaging where excellent transparency and gloss are important. E.g. booklet labelling as well as labelling beverages, toiletries and cosmetics with a no-label look.	27	30	130 270	80	–
PP WHITE 40 White, cavitated, biaxially corona-treated polypropylene film.	Mainly overlaminated labels for food and home care packaging. E.g. ice cream, household oriented, chemical and yogurt packages.	29	40	100 200	70	–
PP WHITE TC 40 White, glossy, biaxially oriented, cavitated, top-coated polypropylene film.	Product labels in applications requiring a thin white film. Mainly used with overlamination film.	30	41	100 200	105	–
PP SOLID WHITE 60 White, glossy, biaxially oriented, corona-treated polypropylene film.	Product labels for non-squeezable applications. E.g. shampoo bottles, cosmetics, detergents and food packages.	58	60	180 150	80	80
PP CLEAR TC 60 Transparent, glossy, biaxially oriented, top-coated polypropylene film.	Product labels for rigid bottle applications where excellent transparency is important. E.g. shampoo bottles, cosmetics, detergents and food packages.	54	59	210 170	90	–
PP CLEAR 60 Transparent, glossy, biaxially oriented, corona-treated polypropylene film.	Product labels for rigid bottle applications where excellent transparency is important. E.g. shampoo bottles, cosmetics, detergents and food packages.	53	60	200 160	80	–
PP SOLID WHITE 90 White, glossy, biaxially oriented, polypropylene film, coated on both side.	For product labelling in applications where resistance against water, oil and chemicals is important. E.g. labelling toiletries and cosmetics.	89	90	180 170	50	85
PP CLEAR TC 30 Transparent, glossy, biaxially oriented, top-coated polypropylene film.	Mainly overlaminated labels for beverage, food and pharma packaging. E.g. booklet labelling as well as labelling beverages, toiletries and cosmetics with a no-label look.	28	31	130 270	80	–
PP CLEAR TC 50 Transparent, glossy, biaxially oriented, top-coated polypropylene film.	Product labels for rigid bottle applications where excellent transparency is important. E.g. shampoo bottles, cosmetics, detergents and food packages.	46	50	155 250	85	–
PP CLEAR TC 50 P Transparent, glossy, biaxially oriented, top-coated, pasteurizable polypropylene film.	Product labels with excellent clarity and a no-label look. Mainly combined with PET backing for labelling spirits, beer, water and other beverages. Also for labelling personal, home care and pharmaceutical products with a no-label look.	46	51	210 170	80	–
PP WHITE TC 60 White, cavitated, glossy, biaxially oriented, top-coated polypropylene film.	Product labels for rigid bottle applications. E.g. shampoo bottles, cosmetics, detergents and food packages.	45	60	110 165	65	80
PP SOLID WHITE TC 90 White, glossy, biaxially oriented polypropylene film, coated on both sides.	For product labelling in applications where resistance against water, oil and chemicals is important. E.g. labelling toiletries and cosmetics. Suitable for thermal transfer overprinted information labels.	90	92	180 170	60	85

Name and quality	Use	Substance g/m² ISO 536	Caliper µm	Tensile strength kN/m MD/CD	Gloss % 60°	Opacity % ISO 2471
PP CLEAR TC 90 Clear, high-gloss, biaxially oriented PP film, coated on both sides. Enhanced UV stability for graphic applications.	High-quality cosmetics and toiletries labels. Specially designed for graphic art applications. Available with UV adhesives.	83	92	190 170	–	–
RAFLEX CLEAR TC Transparent, biaxially oriented, top-coated special polyolefin film.	Product labels for applications where transparency and squeezability are required. E.g. shampoo bottles and other products in personal care.	51	55	110 210	–	–
RAFLEX PLUS CLEAR TC Transparent, glossy, top-coated polypropylene film.	High-quality product labels in personal and home care end-uses. Specially designed for applications requiring transparency, conformability and squeezability.	51	56	170 180	–	–
RAFLEX PLUS WHITE TC White, glossy, top-coated polypropylene film.	High-quality product labels in personal and home care end-uses. Specially designed for applications requiring conformability and squeezability.	54	56	160 180	82	80
PP MATT SOLID WHITE 60 White, matt, biaxially oriented, corona-treated polypropylene film.	Product labels for non-squeezable packages where a matt appearance is important. E.g. shampoo bottles and other products in personal care as well as detergents and other products in home care.	55	57	120 215	14	–
PP SOLID WHITE TC 60 White, glossy, biaxially oriented, top-coated polypropylene film.	Product labels for rigid bottle applications. E.g. shampoo bottles, cosmetics, detergents and food packages.	59	60	180 150	–	80
PP MATT TRANSPARENT 60 Transparent, matt, biaxially oriented, corona-treated polypropylene film.	Product labels for non-squeezable packages where a matt appearance is important. E.g. shampoo bottles and other products in personal care as well as detergents and other products in home care.	52	57	140 240	16	–
PP MATT TRANSPARENT TC 60 Transparent, matt, biaxially oriented, top-coated polypropylene film.	Product labels for non-squeezable packages where a matt appearance is important. E.g. shampoo bottles and other products in personal care as well as detergents and other products in home care.	55	60	160 136	10	–
SOFT TOUCH PP Matt, transparent, corona-treated polypropylene soft touch film.	Product labels mainly in personal care end-uses where the label needs to match the soft touch, velvet-like texture of the package.	56	65	–	–	–
PP SILVER TC 30 Direct metallized, top-coated polypropylene film.	Premium product labels and promotional labelling where a metallic effect and high gloss are important for product differentiation. E.g. cosmetics and other products in the personal care, food and beverage segments.	28	32	60 100	–	–
PP SILVER TC 50 Direct-metallized, top-coated polypropylene film.	Premium product labels and promotional labelling where a metallic effect and high gloss are important for product differentiation. E.g. cosmetics and other products in the personal care, food and beverage segments.	48	50	210 170	–	–

Name and quality	Use	Substance g/m² ISO 536	Caliper µm	Ultimate elongation MD/CD	Gloss % 60°	Opacity % ISO 2471
PET WHITE TC 50 White, semi-gloss, top-coated polyester film.	For durable end-use applications where good resistance against water, oil and chemicals is important. E.g. labelling on durable products, drums, PET containers and PET packages.	55	50	85 50	12	–
PET MATT SILVER TC 36 Top-coated, metallized, matt-coated polyester film.	For durable end-use applications where good resistance against water, oil and chemicals is important.	51	37	–	–	–
PET MATT SILVER TC 50 Top-coated, metallized, matt-coated polyester film.	For durable end-use applications where good resistance against water, oil and chemicals is important.	72	50	140 100	–	–
PET CLEAR TC 50 Ultraclear, glossy, top-coated polyester film.	For durable end-use applications where good resistance against water, oil and chemicals is important. E.g. labelling on durable products, cosmetics with a no-label look, PET containers and PET packages.	70	50	100 60	12	–
PET CLEAR TC 36 Ultraclear, glossy, top-coated polyester film.	For durable end-use applications where good resistance against water, oil and chemicals is important. E.g. labelling on durable- and pharmaceutical products, cosmetics with a no-label look and on PET containers and packages.	50	36	165 140	–	–
PET OVERLAMINATING FILM 12µ Gloss-clear polyester film.	Specially developed for overlaminating labels, giving a protective high-gloss, high-quality finish.	17	12	50 50	–	–

		Technical Information Sheet No.
MULTITAC GRADES	Copyface	
	Double Face	
	Industry	
	Standard	
	Transfer Adhesive	
OPAQUES	Castgloss Opaque	ENG 965
	PE Gloss White Opaque TC	ENG 439
	PE Matt White Opaque	ENG 458
	Raflacoat Opaque Black	ENG 050
	Raflacoat Opaque	ENG 374
	Raflagloss Opaque Black	ENG 051
	Thermal Top Opaque	ENG 481
	Transfer Matt Opaque	ENG 059
	Vellum Opaque	ENG 310
SPECIAL THERMAL GRADES	Thermal Board Eco 130B	ENG 452
	Thermal Board Eco 160B	ENG 455
	Thermal Board Eco 190B	ENG 472
	Thermal Board Eco 220B	ENG 457
	Thermal Board Top 170	ENG 478
	Thermal Board Top 105	ENG 402
	Thermal Eco Strong 300	ENG 954
	Thermal Top Strong 200	ENG 479
SPECIAL FILMIC MATERIALS	PE White Strong 75	ENG 108
	Polyprint 80	ENG 418
	Raflatube	ENG 185
	Tyvek 55	ENG 110
	Pharmaclear PP TC 50	ENG 512
	Iridescent Overlaminating Yellow	ENG 347
	Iridescent Overlaminating Red/Green	ENG 348
	Iridescent Yellow	ENG 345
	Iridescent Red/Green	ENG 346
OTHER SPECIALTIES	Raflatyre	ENG 392
	Roughtack	ENG 393
	Syntyre	ENG 070
	Syntyre TC 90	ENG 474
	Thermaltyre	ENG 071
	Vellum Strong	ENG 487

		Technical Information Sheet No.
TAMPER EVIDENT	Tamperproof	ENG 046
	Security White PE	ENG 160
	Clear Acetate 50	ENG 109
HOLOGRAPHIC	Holo Rainbow	ENG 515
	Holo Sparkling	ENG 492
	Holo Tetragon	ENG 105
VOID	Void Silver TC	ENG 516
	Void Clear TC	ENG 091
	Void Text White TC	ENG 095
	Void Text Silver TC	ENG 096
DIGITAL	INDIGO	
	Vellum IL	ENG 033
	Raflacoat IL	ENG 325
	Raflabrite IL	ENG 079
	Raflabrite Opaque IL	ENG 080
	Castgloss IL	ENG 022
	Pharmagloss IL	ENG 023
	Silvervac IL	ENG 024
	Antique Cream Smooth WSA IL	ENG 039
	PE Gloss White IL	ENG 068
	PE Gloss White IL 150	ENG 499
	PE Gloss Clear IL	ENG 067
	PE Matt White IL	ENG 035
	PE Matt Clear IL	ENG 034
	PP Solid White IL 60	ENG 026
	PP Clear IL 60	ENG 025
	PP Silver IL	ENG 140
	XEIKON	
	Vellum DL	ENG 971
	Raflasilk WSA DL	ENG 979
	Raflabrite DL	ENG 078
	Raflamatt WSA DL	ENG 007
	Castgloss DL	ENG 974
	Castgloss Opaque DL	ENG 011
	Pharmagloss DL	ENG 125
	Pharmamatt DL	ENG 010
	PP Solid White TC DL 60	ENG 975
	PP Clear TC DL 60	ENG 976
	Polylaser Matt White DL	ENG 977

UPM RAFLATAC ADHESIVES

PERMANENTS

Name and quality	Use	Tack, N, FTM 9 typical values	Shear, h, FTM 8 typical values	Labelling temperature min. °C	Service temperature min. °C	Service temperature max °C	Short-term peak temperature °C, max 5 mins.
RP 31 Acrylic, water-borne.	Permanent adhesive for pharmaceutical labelling. Very good resistance to edge-lifting.	18	12	5	–20	80	130
RP 37 Acrylic, water-borne.	Permanent adhesive for universal use with filmic face materials.	13	30	5	–20	100	140
RP 51 Acrylic, water-borne.	Strong permanent adhesive for general use in product and information labelling. Very good adhesion on a wide variety of substrates.	20	4	0	–20	80	120
RP 72 Acrylic, water-borne.	Ultra-clear permanent adhesive for laminates with a filmic face and backing. Suitable for pasteurization.	8	100	10	0	100	120
RP 74 Acrylic, water-borne.	Clear permanent adhesive for laminates with a filmic face and backing.	10	120	10	0	120	140
RP 77 Acrylic, water-borne.	Specially designed for labelling HDPE drums and other rough substrates. For use with filmic face materials.	20	5	0	–20	70	100
RP A4 Acrylic, water-borne.	Permanent adhesive for A4 information labelling. Very good heat resistance and good adhesion on a wide variety of substrates.	12	3	5	–20	100	140
RH 1 Rubber hot melt.	High-tack, permanent adhesive for product and information labelling. Very high initial adhesion even on non-polar and moist substrates.	20	9	–5	–40	50	70
RH 9 Rubber hot melt.	High tack, permanent adhesive for food labelling. Effective at a wide range of temperatures and in moist conditions.	18	15	0	–40	50	80

DEEP FREEZE

RP 48 Acrylic, water-borne.	Deep freeze, permanent adhesive for product labelling.	9	2	–20	–40	60	70
RH 3 Rubber hot melt.	Deep freeze, permanent adhesive. Excellent adhesion on moist and non-polar substrates.	14	4	–20	–40	40	50

UPM RAFLATAC ADHESIVES

FOOD GRADE

Name and quality	Use	Tack, N, FTM 9 typical values	Shear, h, FTM 8 typical values	Labelling temperature min. °C	Service temperature min. °C	Service temperature max °C	Short-term peak temperature °C, max 5 mins.
RP 36 FG Acrylic, water-borne.	Permanent adhesive for food applications, in accordance with FDA 21 CFR 176.170 and 176.180.	12	6	10	–20	100	120
RP 36 ML Acrylic, water-borne.	Permanent adhesive for meat labelling. Isega approved (20280U04).	13	2	5	–20	80	120
RH 1 FG Rubber hot melt.	Permanent adhesive for direct food labelling according to FDA requirements 21 CFR 175.125 parts A and B, for poultry, dry and moist food.	18	8	0	–10	50	70

SEMI-PERMANENT

RS 32 Modified acrylic dispersion.	Semi-permanent adhesive. For applications where short-term removability is required.	8	6	5	–20	70	100

REMOVABLE

RR 21 Rubber, water-borne.	Removable adhesive for universal use. Good long-term removability.	5	10	–10	–30	70	100
RR 22 Rubber, water-borne.	Removable adhesive for rough and curved substrates.	6	10	–10	–30	70	100
RR 28 Acrylic, water-borne.	Universal removable adhesive for filmic face materials. Very good UV resistance.	4	2	5	–10	80	120
RR A4 Rubber, water-borne.	Removable adhesive for universal use in A4 information labelling. Good performance on curved substrates and cardboard.	6	3	–10	–30	80	110

UPM RAFLATAC ADHESIVES

WASH-OFF

Name and quality	Use	Tack, N, FTM 9 typical values	Shear, h, FTM 8 typical values	Labelling temperature min. °C	Service temperature min. °C	Service temperature max °C	Short-term peak temperature °C, max 5 mins.
RP 40 Acrylic, water-borne.	Permanent adhesive especially formulated for wine labelling. Provides good adhesion to polar substrates, tolerates fluctuations in temperature and humidity on the bottling line and during storage. Good water resistance in ice buckets. Can be washed off in hot (70 °C) alkaline water.	18	4	5	–20	80	120
RP 45 Acrylic, water-borne.	Permanent water-washable adhesive for plastic goods.	22	2	5	–20	60	100

SPECIALTIES

RP 34 Acrylic, water-borne.	Permanent adhesive for end-uses where good sheeting properties and guillotine cutting are required. Can also be used for applications requiring short-term repositionability.	12	4	5	–20	100	120
RP 31 C Acrylic, water-borne.	Special permanent adhesive for pharmaceutical labelling. Recommended for applications where non-migration properties are critical.	13	10	10	–20	100	120
RP 35 Acrylic dispersion.	Permanent adhesive for pharmaceutical applications requiring high clarity on small diameter substrates.	9	24	10	–10	100	140
RP 35 L Acrylic dispersion.	Luminescent permanent adhesive for clear filmic face materials used in pharmaceutical labelling.	9	24	10	–10	100	140
RP 38 Acrylic, water-borne.	Permanent adhesive for textile labelling. Non-staining, but not suitable for silk, suede or leather.	11	8	10	–20	60	80
RP 46 RAFLASTAMP Acrylic, water-borne.	Permanent water-removable adhesive for stamps, can be soaked according to philatelists' requirements.	18	6	10	–20	80	100
RH T Rubber hot melt.	High-tack permanent adhesive for tyre labelling.	36	8	10	–20	40	45

SPECIALTIES

Name and quality	Use	Tack, N, FTM 9 typical values	Shear, h, FTM 8 typical values	Labelling temperature min. °C	Service temperature min. °C	Service temperature max °C	Short-term peak temperature °C, max 5 mins.
RH 2 Rubber hot melt.	High-tack, permanent adhesive for product and information labelling. Very high initial adhesion to both rough and non-polar surfaces.	25	>40	5	–15	60	80
RH 7 Rubber hot melt.	High-tack, permanent adhesive for rough substrates.	35	>40	5	–20	50	60

UV HOT MELTS

Name and quality	Use	Tack, N, FTM 9 typical values	Peel 90 degr, steel, FTM 2 typical values	Labelling temperature min. °C	Service temperature min. °C	Service temperature max °C	Short-term peak temperature °C, max 5 mins.
RC 10 Acrylic, radiation-cured hot melt.	Removable clear adhesive for universal use with filmic faces. Very good removability without leaving adhesive residue.	3	2	10	0	140	200
RC 12 Acrylic, radiation-cured hot melt.	Strong removable adhesive for wet wipes end-uses where good chemical resistance is needed. Also for other open-closure packages.	8	5	10	0	120	200
RC 14 Acrylic, radiation-cured hot melt.	Permanent adhesive for filmic face materials. Excellent clarity and chemical and temperature resistance.	12	7	10	–5	140	250
RC 18 Acrylic, radiation-cured hot melt.	Extra-permanent adhesive for filmic face materials. Very good chemical and temperature resistance.	18	13	5	–10	120	250

UPM RAFLATAC BACKING MATERIALS

Name and quality	Use	Substance g/m²	Caliper µm	Tensile strength kN/m MD/CD	Transparency %
HONEY GLASSINE 65 Yellow, transparent glassine backing paper.	Backing paper for all rollstock applications. Good with photocell dispensing systems.	60	53	6.3 2.4	50
WHITE GLASSINE 65 White glassine, transparent backing paper.	Backing paper for rollstock applications. Good with photocell dispensing systems.	62	55	6.7 2.5	51
BLUE GLASSINE 65 Blue glassine backing paper.	Transparent supercalendered surface-sized wood-free paper for all reelstock laminates.	62	55	7.0 3.1	47
HONEY GLASSINE 85 Yellow glassine, wood-free backing paper.	For rollstock laminates, especially for information labelling in fanfold applications.	79	71	7.8 3.5	40
WHITE GLASSINE 85 White glassine, wood-free backing paper.	For rollstock laminates, especially for information labelling in fanfold applications.	78	71	8.2 3.3	40
HIGH DENSITY 70 WHITE White, transparent glassine backing paper.	Specially developed for filmic label materials to offer the best conversion properties. Good with photocell dispensing systems.	64	56	7.5 2.7	51
HIGH DENSITY 75 WHITE White, transparent glassine backing paper.	Specially developed for filmic label materials to offer the best conversion properties. Good with photocell dispensing systems.	72	62	8.5 3.2	47
KRAFT SPECIAL 55 White kraft backing paper.	For standard A4 paper laminates and other information labelling.	51	54	4.8 2.0	–
KRAFT SPECIAL 70 White kraft backing paper.	For standard A4 paper laminates and other information labelling.	66	68	6.0 2.6	–
KRAFT SPECIAL 75 White kraft backing paper.	Information labelling where good lay-flat properties are required. Suitable for fanfold applications.	76	71	6.4 1.9	–
KRAFT SPECIAL 80 White kraft backing paper.	For A4 laminates requiring high rigidity.	80	91	5.2 2.6	–

Name and quality	Use	Substance g/m²	Caliper µm	Tensile strength kN/m MD/CD	Transparency %
KRAFT SPECIAL 85 White kraft backing paper.	Backing paper for rolls and sheets in information labelling. Suitable for fanfold applications. Not for use in photocell dispensing systems.	86	82	6.9	–
KRAFT 130 White kraft backing paper.	For laminates where extra-high stiffness is required.	135	130	9.9 4.9	–
KRAFT SPECIAL COATED 100 Kraft backing paper, semi-gloss coated on reverse side.	Special applications where good printability on the backing paper is required.	100	80	5.7 3.2	–
KRAFT SPECIAL COATED MATT 100 Kraft backing paper, matt-coated on reverse side.	A4 filmic applications for laser end-uses.	100	88	5.7 3.2	–

SPECIALTIES

POLYESTER CLEAR 30 Clear polyester backing material.	Specially designed for use with clear filmic face materials in applications requiring excellent clarity. Good strength characteristics for high-speed and difficult applications.	42	30	190* 190*	–
POLYESTER CLEAR 36 Clear polyester backing material.	Specially designed for use with clear filmic face materials in applications requiring excellent clarity. Good strength characteristics for high-speed and difficult applications.	51	36	200* 200*	–

* Tensile strength at break N/mm² MD/CD DIN 53455

SPECIFIC SURFACES	RR 21	RR 28	RR A4	RP 31	RP 37	RP 40	RP 45	RP 48	RP 51	RP 72	RP 74	RP 77	RP A4	RH 1	RH 2	RH 3
Convex, diameter less than 30 mm	D	C	B	A	B	B	C	D	B	C	B	B	A	C	A	D
Porous or rough	D	C	C	C	B	C	C	B	B	D	D	A	B	A	A	B
Hard and smooth	B	A	B	A	A	A	A	A	A	A	A	A	A	A	A	A
Warm, +80 °C	C	C	C	A	A	C	C	D	B	A	A	C	A	D	D	D
Cool, 0...+10 °C	B	C	A	B	B	A	B	A	A	C	C	A	B	A	B	A
Cold, –25...0 °C	B	C	B	D	C	C	C	A	B	D	D	C	C	B	C	A
Non-polar (PE)	A	B	A	B	B	B	A	A	A	C	C	A	A	A	A	A

Key: A) Excellent suitability. B) Average suitability. C) Adequate suitability (pre-testing recommended). D) Not recommended.

WARRANTY
Our recommendations are based on our most up-to-date knowledge and experience. As our 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 is subject to change without notice.

STORAGE AND PACKAGING
UPM Raflatac paper-based pressure sensitive labelstock with acrylic adhesives can be stored for at least four (4) years after production in conditions +20 °C/RH 40–60%, if not stated otherwise in the technical specifications. For other adhesives, please refer to the specific technical sheet. Rolls are wrapped in PE film for moisture protection prior to palletization (INFO 194).

INFORMATION ABOUT ADHESIVES
All UPM Raflatac adhesives, except RH and RC types, are water-based dispersion adhesives that combine good convertibility with excellent ageing characteristics. For other adhesives, please refer to the specific technical sheet.

PATTERN GUMMING
UPM Raflatac pressure sensitive labelstock is also available with pattern gumming. Trim width: 100 cm.

BACK IMPRINT
Back imprint according to customer requirements or with UPM Raflatac's visual identity.

MEASUREMENT OF PAPER PROPERTIES

	METHOD					
PROPERTY	ISO	SCAN	DIN	BS	AFNOR	TAPPI
Substance	536	P6:75	53104,TI	3432	Q03,019	T410
Caliper	534	P7:75	53105	3983	Q03,016	T411
Tensile strength	1924	P38:80	53112,T1	4415	Q03,019	–
Brightness	2470	P3:75	53145	4432,(1)	Q03,039	T452
Roughness PPS 10	8791/4	P96	–	6563	–	–
Opacity	2471	P8:75	53146	4432,_P3	Q03,040	T519
Gloss Hunter 75°	–	–	–	–	–	–
K&N	–	–	–	4574	–	–
Stiffness (Kodak)	DP 5629	–	53123	–	Q03,025	–
Transparency	2469	–	53147	–	–	–

UPM RAFLATAC'S TRADE CUSTOMS

DIMENSIONS, QUANTITIES, PACKAGING

Rolls

1.	Accuracy of length measurement		Tolerance
		Paper-based and filmic laminates	± 1%
2.	Actual length		
	2.1	Ex-stock products	± 10%
	2.2	Ex-coater products	+10% / –20%
	2.3	Customer-specific coater products, excluding last slit sets of the order	+10% / –20%
3.	Width		
	3.1	Master rolls, unless supplied untrimmed	± 2 mm
	3.2	Slit rolls, minimum slitting width 100 mm	± 1 mm
	3.3	Adhesive patterns	
		Width of adhesive band	± 2 mm
		Longitudinal variation	± 2 mm
	3.4	Split back patterns	
		Split width	± 2 mm
		Longitudinal variation	± 2 mm
4.	Supply quantity		
	4.1	Ex-stock products	± 10%
	4.2	Ex-coater products	
		Order quantity less than or equal to 4,000 m^2	+20% / –10%
		Order quantity 4,001 m^2 – 24,000 m^2	+15% / –10%
		Order quantity over 24,000 m^2	± 10%
	4.3	Customer-specific coater products. The supply quantity is based on the ordered raw material quantity. Quantity and tolerance are to be mutually agreed before order confirmation.	
5.	Number of splices		
	5.1	MegaPro	No splices
	5.2	Mega and Regular products (paper-based and filmic laminates)	
		Roll length	Maximum
		1,000 m	1 splice
		2,000 m	2 splices
		3,000 m	3 splices
		4,000 m	3 splices
		5,000 m	4 splices
	5.3	Specialties	
		Roll length	Maximum
		1,000 m	2 splices
		2,000 m	2 splices
		3,000 m	3 splices
		4,000 m	3 splices
		5,000 m	4 splices

Best before date

The best before date is indicated on UPM Raflatac's product labels. Proper handling is required for the materials to remain in perfect condition up to the best before date.

Storage conditions

Materials should be stored away from direct sunlight and heat, in a dark, dry place at a temperature of 22 ºC ± 2ºC with a relative humidity of 50%, ± 5%.

Packaging

Where applicable, and based on law, regulations or mutual agreement, returnable boards, frames, cases, pallets and special cores shall be charged at the appropriate rates unless returned.

UPM

www.upmraflatac.com

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