

UPM RAFLATAC LABELSTOCK PRODUCTS

LABELSTOCK FROM THE PRO LABEL COMPANY

This brochure presents the entire UPM Raflatac product range – products from the forefront of the self-adhesives industry with tailored functionality for every application. Each face material, adhesive and backing is described according to its qualities, suggested areas of use and technical details in full.

The ongoing development of label materials at UPM Raflatac is accessible to all particularly through our Special products. A world of opportunity opens with our multicolors, thermal boards and iridescents. Expert solutions excel in tyre labelling, product security and digital printing. Innovation enters the market with dedicated adhesives for pharmaceutical end-uses, wash-off applications and more.

As the Pro Label company we invest significant global resources to take the label to the limit. 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/m ²		Caliper µm		Tensile strength kN/m		Brightness ISO (%)		Roughness PPS 10		Roughness ml/min		Opacity %		Gloss % Hunter 75°		Stiffness MD/CD (Kodak)	
VELLUM TTR Surface-sized, wood-free, supercalendered paper.	Universal label paper for information and product labelling. Suitable for thermal transfer printing.	70	70	6.0	2.3	95	2.7	-	90	-	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	91	5.5	2.0	93	5.5	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 PLUS Coated, wood-free mid-gloss paper.	Multipurpose label paper for high-quality multicolour labels requiring good print definition and fine detail.	80	70	5.8	2.8	90	1.0	-	89	64	0.23	0.13							
RAFLABRITE FCert MC Coated, wood-free SC mid-gloss paper.	Multipurpose label paper for high-quality multicolour labels requiring good print definition and fine detail. This paper is made from FSC-certified (mixed credit) pulp. 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 Coated, wood-free SC mid-gloss paper.	A multipurpose label paper for high quality product labels requiring good print definition and fine detail. Suitable for small packages such as toys and cosmetics. Recommended for fruit labels.	60	53	4.0	2.0	90	1.0	-	81	70	0.11	0.05							
RAFLAGLOSS Coated, wood-free SC high gloss 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							
PHARMALITE Coated, wood-free SC mid-gloss paper.	Specially developed for the pharmaceutical industry and for labelling of products with small diameters and curved surfaces. Labels requiring good print definition and fine details with high flexibility.	60	53	4.0	2.0	90	0.9	-	81	71	0.11	0.05							
RAFLAGLOSS 115 Coated, wood-free high gloss SC 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 Coated, wood-free SC mid-gloss paper.	Specially developed for the pharmaceutical industry and for labelling products with small diameters and curved surfaces. High flexibility. Good print definition.	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/m ²		Caliper µm		Tensile strength kN/m		Brightness ISO (%)	Roughness PPS 10 Beilstein	Roughness ml/min	Opacity %	Gloss % Hunter 75°	Stiffness MD/CD (Kodak)
		80	80	5.0	2.9	87	0.7						
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	-
PEFC COATED BOARD 130 Both sides double coated, wood-free, mid-gloss board, PEFC approved.	Labels where very high stiffness is needed.	130	98	7.0 3.0	90	1.0	-	97	68	-
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 Coated, wood-free matt paper.	Specially developed for the pharmaceutical industry and for labelling products with small diameters and curved surfaces. High flexibility. Good print definition.	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.	78	82	5.5 3.0	-	2.5	-	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/m ²	Caliper µm	Tensile strength kN/m MD/CD	Brightness ISO (%)	Roughness PPS 10	Roughness ml/min Beirntsen	Opacity %	Gloss % Hunter 75°	Stiffness MD/CD (Kodak)
VELLUM EMBOSSED WSA Embossed paper, coated on one side, with wet-strength and resistant to alkali.	High-quality paper, ideal for all wine and beverage applications as well as premium food labelling. Suitable for beverage labelling where wash-off properties are required.	90	115	7.5	85	-	-	91	10	-
ANTIQUE WHITE WSA White, wood-free, narrow-ribbed, machine-finished, wet-strength paper. Alkali resistant and mould proof.	High-quality paper, ideal for all wine and beverage applications as well as premium food labelling.	90	130	2.9	-	-	850	90	-	0.53 0.35
ANTIQUE WHITE SMOOTH WSA White, wood-free, narrow-ribbed, machine-finished, wet-strength paper. Alkali resistant and mould proof.	High-quality paper, ideal for all wine and beverage applications as well as premium food labelling.	90	130	2.9	-	-	570	90	-	0.53 0.35
ANTIQUE WHITE PURE WSA White, wood-free, narrow-ribbed, machine finished, wet-strength paper. Alkali resistant and mould proof.	High-quality paper, ideal for all wine and beverage applications as well as premium food labelling.	80	122	3.7 2.2	-	-	-	88	-	0.65 0.39
ANTIQUE INTENSIVE WHITE WSA White, wood-free, narrow-ribbed, machine-finished, wet-strength paper. Alkali resistant and mould proof.	High-quality paper, ideal for all wine and beverage applications as well as premium food labelling.	90	123	6.0 3.0	-	-	-	90	-	-
ANTIQUE CREAM WSA Light-coloured, wood-free, narrow-ribbed, machine-finished, wet-strength paper. Alkali resistant and mould proof.	High-quality paper, ideal for all wine and beverage applications as well as premium food labelling.	90	130	2.9	-	-	850	90	-	0.53 0.35
ANTIQUE CREAM SMOOTH WSA Light-coloured, wood-free, narrow-ribbed, machine-finished, wet-strength paper. Alkali resistant and mould proof.	High-quality paper, ideal for all wine and beverage applications as well as premium food labelling.	90	130	2.9	-	-	570	90	-	0.53 0.35
ANTIQUE CREAM SMOOTH LIGHT WSA Light-coloured, wood-free, narrow-ribbed, machine-finished, wet-strength paper. Alkali resistant and mould proof.	High-quality paper, ideal for all wine and beverage applications as well as premium food labelling.	70	105	-	-	-	-	84	-	0.26 0.16
MULTIPRINT WHITE WSA Surface-sized, wood-free, wet strength supercalendered paper. Alkali resistant and mould proof.	High-quality paper, ideal for all wine and beverage applications as well as premium food labelling.	90	112	-	88	-	-	91	-	-
MULTIPRINT IVOIRE WSA Surface-sized, wood-free supercalendered wet strength paper. Alkali resistant and mould proof.	High-quality paper, ideal for all wine and beverage applications as well as premium food labelling.	90	112	-	88	-	-	91	-	-

UPM RAFLATAC FACE MATERIALS

WET-STRENGTH PAPERS

Name and quality	Use	Substance g/m ²		Caliper µm		Tensile strength kN/m		Brightness ISO (%)		Roughness PPS 10		Roughness ml/min		Opacity / Wet Opacity %		Gloss % Hunter 75°		Stiffness MD/CD (Kodak)		
VELMART WHITE WSA Wood-free, machine-finished, embossed, wet-strength paper. Alkali resistant and mould proof.	High-quality paper, ideal for all wine and beverage applications as well as premium food labelling.	90	118	4.4 2.5	99	-	-	88	-	2.00 0.90										
CANALIN WSA Uncoated, felt-grained, wet-strength paper. Alkali resistant and mould proof.	A high-quality paper, ideal for all wine and beverage applications as well as premium food labelling.	90	130	7.5 3.0	124	-	-	85	-	-										
FLEUR DE COTON WSA White, textured, machine-finished, wet-strength paper. Alkali resistant and mould proof.	High-quality paper, ideal for all wine and beverage applications as well as premium food labelling.	95	132	-	-	-	-	92	-	-										
FLEUR DE COTON IVOIRE WSA Textured, light-coloured, machine-finished, wet-strength paper. Alkali resistant and mould proof.	High-quality paper, ideal for all wine and beverage applications as well as premium food labelling.	95	128	-	-	-	-	90	-	-										
RAFLASILK WSA Coated, wood-free SC mid-gloss paper. Wet-strength treated and alkali resistant.	For high-quality, multicolour labels. Ideal for all wine and beverage applications, as well as premium food labelling.	80	74	4.4 2.5	86	0.8	-	86	70	-										
RAFLAGLOSS WSA Coated, wood-free SC high gloss paper. Wet-strength treated and alkali resistant.	For high-quality, multicolour labels. Ideal for all wine and beverage applications, as well as premium food labelling.	90	74	5.8 3.2	88	0.6	-	89	89	0.36 0.15										
CASTGLOSS WSA 80 Cast-coated, wood-free paper. Wet-strength treated and alkali resistant.	High-gloss, top-quality paper for multicolour labelling. Ideal for all wine and beverage applications, as well as premium food labelling.	80	92	5.1 2.8	85	-	-	90	85	-										
CASTGLOSS WSA Cast-coated, wood-free paper. Wet-strength treated and alkali resistant.	High-gloss, top-quality paper for multicolour labelling. Ideal for all wine and beverage applications, as well as premium food labelling.	90	88	5.1 3.5	89	0.7	-	90	89	-										
RAFLAMATT WSA 90 Coated, wood-free matt paper. Wet strength treated and alkali resistant.	High-quality matt paper for multicolour labels. Ideal for all wine and beverage applications, as well as premium food labelling.	90	89	5.4 2.8	90	1.6	-	90	-	-										
KRAFT BROWN 70 Standard-ribbed, machine-glazed, brown Kraft paper made with long-fibre resinous pulp.	For wine, beverage and premium food labelling where an authentic, natural and nature-friendly image is desired.	70	98	6.7 3.0	-	-	-	93	-	-										
ICY WHITE Machine-finished, wood-free, wet-strength paper with a reverse-side treatment.	High-quality paper for all wine and beverage applications, as well as premium food labelling. Recommended for applications where high ice-bucket resistance is required.	110	138	-	88	-	-	96 90	-	0.57 0.35										
OPALINE WSA Pearlescent-coated, wood-free paper. Wet-strength treated and alkali resistant.	Icy-white paper gives a shimmery effect for luxury champagne, wine and spirits labels as well as labelling premium foods and cosmetics.	90	103	-	-	-	-	91	-	-										

UPM RAFLATAC FACE MATERIALS

THERMALS
ECO

Name and quality	Use	Substance g/m ² ISO 536		Caliper µm ISO 534	Tensile strength MD/CD kN/m ISO 1924/1	Roughness PPS 10	Opacity %	Brightness min (%) ISO 2470
THERMAL ECO 300 Non-topcoated paper with a high sensitivity thermal coating.	For information labelling in dry environments such as weigh-price, retail and logistics end-uses. Limited resistance to thermal image scratching and smudging. Avoid contact with moisture, oil, plasticizers (PVC) and fat.	71	79	4.7 2.3	1.7	90	90	
THERMALITE ECO 300 Non-topcoated thin paper with a high sensitivity thermal coating.	For information labelling in dry environments such as weigh-price, retail and logistics end-uses. Limited resistance to thermal image scratching and smudging. Avoid contact with moisture, oil, plasticizers (PVC) and fat.	55	63	3.0 1.5	1.7	82	90	
THERMAL ECO 200 Non-topcoated paper with a standard sensitivity thermal coating.	For information labelling in dry environments such as weigh-price and other short-life applications in retail end-uses. Very limited resistance to thermal image coating. Avoid contact with moisture, oil, fats and plasticizers (PVC).	75	82	4.0 2.3	2.3	90	86	
THERMAL ECO 300 F CERT MC Non-topcoated paper with a high sensitivity thermal coating.	For information labelling in dry environments such as weigh-price, retail and logistics end-uses. This paper is made from FSC-certified (mixed credit) pulp. Limited resistance to thermal image scratching and smudging. Avoid contact with moisture, oil, fat and plasticizers (PVC).	71	79	4.7 2.3	1.7	90	90	
THERMAL ECO BPAF F CERT MC Non-topcoated paper with a high sensitivity thermal coating. Produced without BPA-based chemistry.	For self-service scales, weigh-price, shipping and logistics labelling. This paper is made from FSC-certified (mixed credit) pulp. Limited resistance to thermal image scratching and smudging. Avoid contact with moisture, oil, fat and plasticizers (PVC).	71	79	4.7 2.3	1.7	90	90	
THERMAL ECO TPF F CERT MC Non-topcoated paper with a high sensitivity thermal coating. Produced without phenol-based chemistry.	For self-service scales, weigh-price, shipping and logistics labelling. This paper is made from FSC-certified (mixed credit) pulp. Limited resistance to thermal image scratching and smudging. Avoid contact with moisture, oil, fat and plasticizers (PVC).	71	79	4.7 2.3	1.7	90	90	

TOP

THERMAL TOP 200 Top-side barrier-coated paper with a standard sensitivity thermal coating.	Information labelling requiring good scratch resistance for excellent scanning properties in dry end-use environments, e.g. in retail, transport and logistics.	72	79 2.3	7.8	1.6	89	90
THERMAL TOP P 180 Top- and reverse-side barrier-coated paper with a standard sensitivity thermal coating.	For a wide range of industrial applications including prepacked foodstuffs labelling where premium resistance to oil and water is required.	73	72	4.7 2.3	1.4	88	93
THERMAL TOP P 200 Top- and reverse-side barrier-coated paper with a standard sensitivity thermal coating.	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.	73	76	4.1 2.3	1.4	88	91
THERMAL TOP P 300 Top- and reverse-side barrier-coated paper with a high sensitivity thermal coating.	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	6.2 3.6	1.4	91	90
THERMAL DURABLE P 300 Top- and reverse-side barrier-coated paper with a high sensitivity thermal coating.	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 Top- and reverse-side barrier-coated PP film with a standard sensitivity thermal coating.	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.

UPM RAFLATAC FACE MATERIALS

THERMAL TRANSFERS

Name and quality	Use	Substance g/m ²	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, one-side coated label paper, matt finish.	Tailored for thermal transfer printing applications to achieve the highest character definition and bar code resolution.	68	66	4.6 2.8	89	1.2	87	35	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, double-coated both sides.	High-rigidity labels for thermal transfer.	170	145	-	92	1.3	98	30	-
THERMAL TRANSFER BOARD 220 Wood-free semi-matt board, double-coated both sides.	High-rigidity labels for thermal transfer.	220	230	-	95	1.0	98	55	-

UPM RAFLATAC FACE MATERIALS

A4 PAPERS

Name and quality	Use	Substance g/m ²		Caliper µm		Tensile strength kN/m		Brightness ISO (%)		Roughness PPS 10		Opacity %		Gloss % Hunter 75°		Stiffness MD/CD (Kodak)	
		70	89	5.5	2.3	98	5.0	92	-	-	-	-	-	-			
JETLASER F CERT MC Wood-free machine-finished paper.	Multifunctional information labelling, especially designed for ink jets, lasers and copiers. This paper is made from FSC-certified (mixed credit) pulp.	70	89	5.5	2.3	98	5.0	92	-	-	-	-	-				
JET OPAQUE F CERT MC Wood-free machine-finished paper with greyish reverse side for increased opacity.	Multifunctional information labelling, especially designed for ink jets, lasers and copiers. This paper is made from FSC-certified (mixed credit) pulp.	72	91	5.5	2.3	80	5.5	98	-	-	-	-					
JETLASER OPAQUE F CERT MC Wood-free machine-finished paper with black reverse side for increased opacity.	Multifunctional information labelling, especially designed for ink jets, lasers and copiers. This paper is made from FSC-certified (mixed credit) pulp.	72	92	5.2	2.2	80	5.5	100	-	-	-	-					
PEFC LASERPLUS Wood-free machine-finished paper.	Multifunctional information labelling, especially designed for ink jets, lasers and copiers. This paper is made from PEFC-certified pulp.	70	91	6.0	2.1	89	6.0	90	-	-	-	-					
JETLITE F CERT MC Wood-free machine-finished paper.	Multifunctional information labelling for ink jets lasers and copiers. Flexible face material, optimal for hospital/laboratory applications.	56	65	3.3	2.0	96	4.5	88	-	0.12	0.05	-					
JETBLUE F CERT MC JETGREEN F CERT MC JETLEMON F CERT MC JETRED F CERT MC Wood-free, pulp-dyed, machine-finished paper.	Information labels printed on ink jets, lasers and copiers. This paper is made from FSC-certified (mixed credit) pulp.	80	100	4.8	2.5	-	6.0	90	-	-	-	-					
LASERGLOSS F CERT MC Cast-coated, wood-free paper with mirror-like gloss finish.	For high-quality multicolour copier and laser printing. This paper is made from FSC-certified (mixed credit) pulp.	84	86	5.3	3.1	93	0.5	90	90	-	-	-					
JETCOLOR F CERT MC Special-coated matt-finished paper.	Multicolour ink-jet printing, high resolution Print properties of face extend to photo-quality level. This paper is made from FSC-certified (mixed credit) pulp.	92	115	5.6	3.3	98	3.6	89	-	-	-	-					
JETGLOSS F CERT MC Special-coated gloss-finished paper.	Multicolour ink-jet printing, high resolution Print properties of face extend to photo-quality level. This paper is made from FSC-certified (mixed credit) pulp.	92	107	5.8	5.0	98	1.3	90	77	-	-	-					
NATURLASER 70 F CERT RC White uncoated paper made of 100% recycled fibres.	Multifunctional information labelling e.g. address labels, price marking and VIP labels.	70	87	1.9	89	5.5	89	-	-	-	-	-					
LASERMATT HS Wood-free, off-machine coated paper with smooth matt surface.	High-quality multicolour, matt product labels. Specially developed for medium and high volume laser printers.	85	75	5.0	2.4	93	1.3	88	25	-	-	-					

UPM RAFLATAC FACE MATERIALS

A4 FILMS

Name and quality	Use	Substance g/m ²	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	50	-	-	-	-	-	-
POLYLASER GLOSS CLEAR Transparent, gloss-coated heat-stabilized polyester film.	Information labelling where imprinting is done by laser and copier.	71	50	-	-	-	-	-	-
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.	113	80	-	-	-	-	-	-
POLYJET MATT WHITE White, matt-coated polyester film.	Monochrome and multicolour ink-jet printing.	92	70	-	-	-	-	-	-
POLYJET GLOSS WHITE White, gloss-coated polyester film.	Monochrome and multicolour ink-jet printing.	93	67	-	-	-	-	-	-
POLYJET MATT TRANSPARENT Translucent, matt-coated polyester film.	Monochrome and multicolour ink-jet printing.	60	56	-	-	-	-	-	-

UPM RAFLATAC FACE MATERIALS

VACS & FOILS

Name and quality	Use	Substance g/ m ² ISO 5336		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	5.0 3.2	-	-	

UPM RAFLATAC FACE MATERIALS

FILMS
PE

Name and quality	Use	Substance g/ m ² ISO 5336		Caliper μ m	Tensile strength N/ mm ² MD/ CD	Gloss % 60°	Opacity % ISO 2471
PE GLOSS WHITE 85 White, glossy, corona-treated polyethylene film.	Labelling applications – such as home, personal care and other squeezable packages – where resistance to water, oil and chemicals is important.	83	85	18 20	75	80	
PE GLOSS CLEAR 85 Transparent, glossy, corona-treated polyethylene film.	Product labelling in applications where resistance against water, oil and chemicals is important, e.g. labelling toiletries, cosmetics and other squeezable packages.	79	85	18 20	85	–	
PE GLOSS WHITE White, glossy, corona-treated polyethylene film.	Labelling applications – such as home, personal care, industrial chemical and other squeezable packages – where resistance to water, oil and chemicals is important.	93	95	16 16	75	81	
PE GLOSS WHITE RH White, glossy, non-topcoated polyethylene film.	Product labelling in applications where resistance against water, oil and chemicals is important, e.g. labelling chemical and industrial goods.	92	95	19 15	65	80	
PE GLOSS CLEAR Transparent, glossy, corona-treated polyethylene film.	Labelling applications – such as home, personal care and other squeezable packages – where resistance to water, oil and chemicals is important.	89	95	16 16	85	–	
PE GLOSS WHITE 150 White, glossy, corona-treated polyethylene film.	Product labelling in applications where resistance against water, oil and chemicals is important, and when large, simply shaped labels are required, e.g. labelling chemical and industrial goods.	135	140	16 16	75	88	
PE GLOSS CLEAR 150 Transparent, glossy, corona-treated polyethylene film.	Product labelling in applications where resistance against water, oil and chemicals is important, and when large, simply shaped labels are required, e.g. labelling chemical and industrial goods.	130	140	22 16	85	–	
PE GLOSS WHITE TC 85 White, glossy, top-coated polyethylene film.	Labelling applications – such as home, personal care and other squeezable packages – where resistance to water, oil and chemicals is important.	84	86	18 20	85	80	
PE GLOSS CLEAR TC 85 Transparent, glossy, top-coated polyethylene film.	Labelling applications – such as home, personal care and other squeezable packages – where resistance to water, oil and chemicals is important.	80	86	18 20	90	–	
PE GLOSS WHITE TC White, glossy, top-coated polyethylene film.	Labelling applications – such as home, personal care, industrial chemical and other squeezable packages – where resistance to water, oil and chemicals is important. Suitable for overprinting with thermal transfer.	94	96	16 16	80	81	
PE GLOSS CLEAR TC Transparent, glossy, top-coated polyethylene film.	Product labelling in applications where resistance against water, oil and chemicals is important, e.g. labelling toiletries, cosmetics and other squeezable packages. Suitable for thermal transfer overprinted information labels.	90	96	16 16	90	–	

UPM RAFLATAC FACE MATERIALS

FILMS
PE

Name and quality	Use	Substance g/ m ² ISO 5336		Caliper μ m	Tensile strength N/mm ² MD/CD	Gloss % 60°	Opacity % ISO 2471
PE GLOSS WHITE TC 150 White, glossy, top-coated polyethylene film.	Product labelling in applications where resistance against water, oil and chemicals is important e.g. labelling toiletries, cosmetics and other squeezable packages. Suitable for thermal transfer overprinted information labels.	136	141	16 16	80	88	
PE GLOSS CLEAR TC 150 Transparent, glossy, top-coated polyethylene film.	Product labelling in applications where resistance against water, oil and chemicals is important, and when large, simply shaped labels are required, e.g. labelling chemical and industrial goods.	131	141	22 16	85	–	
PE MATT TRANSPARENT 80 Transparent, semi-matt, corona-treated polyethylene film.	Labelling applications – such as home, personal care and other squeezable packages – where a matt or semimatt look is required and resistance to water, oil and chemicals is important.	75	80	28 27	18	–	
PE MATT TRANSPARENT TC 100 Transparent, matt, top-coated polyethylene film.	Labelling applications – such as home, personal care, pharmaceutical and other squeezable packages – where resistance to water, oil and chemicals is important. Suitable for overprinting using thermal transfer.	91	95	18 17	7	–	
PE MATT WHITE TC 100 White, matt, top-coated polyethylene film.	Labelling applications – such as home, personal care, pharmaceutical, industrial chemical and other squeezable packages – where resistance to water, oil and chemicals is important. Suitable for overprinting using thermal transfer.	94	95	18 16	7	80	
PE MATT WHITE TC 85 White, matt, top-coated polyethylene film.	Labelling applications – such as personal care and other squeezable packages – requiring matt, white polyethylene.	88	85	19 22	6	80	
PE MATT TRANSPARENT TC 85 Transparent, matt, top-coated polyethylene film.	Designed mainly for personal care end-uses – such as flexible cosmetics bottles or packaging – requiring a squeezable, matt, transparent PE film.	83	85	19 22	6	–	
PE CAST CLEAR 85 Transparent, glossy, corona-treated cast polyethylene film.	Labelling in home and personal care applications and on other squeezable packages where resistance to water, oil and chemicals is important.	79	85	18 16	85	–	
PE CAST WHITE 85 White, glossy, corona-treated cast polyethylene film.	Product labelling in applications where resistance against water, oil and chemicals is important, e.g. labelling toiletries, cosmetics and other squeezable packages.	81	85	21 18	75	80	
PE CAST CLEAR TC 85 Transparent, glossy, top-coated cast polyethylene film.	Labelling applications – such as home, personal care and other squeezable packages – where resistance to water, oil, and chemicals is important.	80	86	18 16	90	–	
PE CAST WHITE TC 85 White, glossy, top-coated cast polyethylene film.	Labelling applications – such as home, personal care and other squeezable packages – where resistance to water, oil and chemicals is important.	82	86	21 18	85	80	
PE WHITE STRONG 75 Strong, cross-laminated HDPE.	For applications requiring resistance to tearing and cutting.	65	75	–	–	–	
PE SILVER TC 85 Direct-metallized, high-gloss, top-coated polyethylene film.	Eye-catching and decorative labels. Especially suitable for personal care labelling applications.	81	86	19 15	–	–	
POLYPRINT 110 Matt-coated, white polyethylene film.	Product and information labelling requiring excellent printing and overprinting properties, e.g. thermal transfer, cold laser and dot-matrix.	110	135	43 33	–	93	
POLYPRINT 100 Matt-coated, white polyethylene film.	Product and information labelling requiring excellent printing and overprinting properties, e.g. thermal transfer, cold laser and dot-matrix.	80	105	45 35	–	93	
POLYMATT WINE Matt-coated, white high-density polyethylene film.	A film that looks like paper for highly resistant, high-quality, bottle labelling applications. Excellent printability by conventional printing methods and excellent thermal transfer with a wide range of ribbons. This film is not repositionable or suitable for wash-off applications.	60	94	36 34	–	91	

UPM RAFLATAC FACE MATERIALS

FILMS
PP

Name and quality	Use	Substance g/ m ² ISO 5336		Caliper μ m	Tensile strength N/mm ² MD/CD	Gloss % 60° (* 45°)	Opacity % ISO 2471
PP CLEAR 25 Transparent, glossy, biaxially oriented, corona-treated polypropylene film.	Used especially as a high-gloss overlamine for beverage labels where print protection is important. Also for overlaminating other product labels – such as in personal care labelling – where resistance to water, oil, chemicals and abrasion is important. Also suitable for booklet labelling.	23	25	130 270	80*	–	
PP CLEAR 30 Transparent, glossy, biaxially oriented, corona-treated polypropylene film.	Used especially as a high-gloss overlamine for beverage labels where print protection is important. Also for overlaminating other product labels – such as in personal care labelling – where resistance to water, oil, chemicals and abrasion is important. Also suitable for booklet labelling.	27	30	130 270	80*	–	
PP CLEAR 50 Transparent, glossy, biaxially oriented, corona-treated polypropylene film.	Ideal for beverage labels requiring a no-label look and printed using gravure. Also suitable for personal care and other labelling applications where resistance to water, oil and chemicals is important.	45	50	200 170	80*	–	
PP WHITE 40 White, cavitated, biaxially oriented, corona-treated polypropylene film.	Typically for overlaminated labels on food packaging. For product labelling in applications where resistance against water, oil and chemicals is important, e.g. labelling toiletries and cosmetics.	29	40	70 200	90	–	
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 an overlamination film.	30	41	70 200	105	–	
PP SOLID WHITE 60 White, glossy, biaxially oriented, corona-treated polypropylene film.	Product labelling in applications where resistance against water, oil and chemicals is important, e.g. labelling toiletries and cosmetics.	57	58	180 150	80	80	
PP CLEAR TC 60 Transparent, glossy, biaxially oriented, top-coated polypropylene film.	Especially suitable for personal care and beverage labelling applications where a no-label look is desired and where resistance to water, oil and chemicals is important. Suitable for overprinting with thermal transfer.	54	59	200 170	90*	–	
PP CLEAR 60 Transparent, glossy, biaxially oriented, corona-treated polypropylene film.	Especially suitable for personal care and beverage labelling applications where a no-label look is desired and where resistance to water, oil and chemicals is important.	53	58	200 170	80*	–	
PP SOLID WHITE 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.	89	90	180 170	50	85	
PP CLEAR TC 30 Transparent, glossy, biaxially oriented, top-coated polypropylene film.	Especially used a high-gloss overlamine for beverage labels where print protection is important. Also for overlaminating other product labels – such as personal care products – where resistance to water, oil, chemicals and abrasion is important. Also suitable for booklet labelling.	28	31	130 270	80*	–	
PP CLEAR TC 50 Transparent, glossy, biaxially oriented, top-coated polypropylene film.	Especially suitable for personal care and beverage labelling applications where a no-label look is desired and where resistance to water, oil and chemicals is important. Suitable for overprinting with thermal transfer.	46	50	150 250	80*	–	
PP CLEAR TC 50 P Transparent, glossy, biaxially oriented, top-coated, pasteurizable polypropylene film.	Especially for beverage labels requiring a no-label look and printed with gravure. Also for personal care and other labelling applications where resistance to water, oil, and chemicals is important.	46	51	200 170	90*	–	

UPM RAFLATAC FACE MATERIALS

FILMS
PP

Name and quality	Use	Substance g/ m ² ISO 5336		Caliper μ m	Tensile strength kN/mm ² MD/CD	Gloss % 60° (* 45°)	Opacity % ISO 2471
PP WHITE TC 60 White, cavitated, glossy, biaxially oriented, top-coated polypropylene film.	Personal care and food labelling applications where resistance to water, oil and chemicals is important. Suitable for overprinting with thermal transfer.	45	60	110 170	85	80	
PP SOLID WHITE TC 90 White, glossy, biaxially oriented polypropylene film, coated on both sides.	Personal care and food labelling applications where resistance to water, oil and chemicals is important. Suitable for overprinting with thermal transfer.	90	92	180 170	60	85	
PP CLEAR TC 90 Clear, high-gloss, biaxially oriented PP film, coated on both sides. Enhanced UV stability for graphic applications.	High-quality product labels for cosmetics and toiletries. This film is specially designed for graphic art applications, and is also used with UV adhesives.	83	92	190 170	-	-	
RAFLEX PLUS CLEAR TC Transparent, glossy, top-coated polypropylene film.	High-quality product labels in e.g. personal and home care end-uses. Specially designed for applications requiring squeezability, conformability and transparency.	51	56	170 180	80*	-	
RAFLEX PLUS WHITE TC White, glossy, top-coated polypropylene film.	High-quality product labels in e.g. personal and home care end-uses. Specially designed for applications requiring squeezability and conformability.	54	56	160 180	80	80	
SYNLITE TTR White, PP-based film, claycoated one side.	Thin matt film for product labelling and for variable information labelling in logistics and industrial chemical end-use areas. Good chemical resistance.	63	75	-	-	85	
PP MATT SOLID WHITE 60 White, matt, biaxially oriented, corona-treated polypropylene film.	Personal care and food labelling applications where a matt appearance is desired and where resistance to water, oil and chemicals is important.	55	57	120 210	7	80	
PP SOLID WHITE TC 60 White, glossy, biaxially oriented, top-coated polypropylene film.	Personal care and food labelling applications where resistance to water, oil and chemicals is important. Suitable for overprinting with thermal transfer.	58	59	180 150	80	80	
PP MATT TRANSPARENT 60 Transparent, matt, biaxially oriented, corona-treated polypropylene film.	Especially suitable for personal care and drinks industry labelling applications where a matt or frosty appearance is desired and where resistance to water, oil and chemicals is important.	52	57	140 240	7	-	
PP MATT TRANSPARENT TC 60 Transparent, matt, biaxially oriented, top-coated polypropylene film.	Especially suitable for personal care and beverage labelling applications where a matt or frosty appearance is desired and where resistance to water, oil and chemicals is important.	55	60	160 140	10	-	
SOFT TOUCH PP Matt, transparent, corona-treated polypropylene soft touch film.	Personal care labelling applications where the label needs to match the soft-touch style and velvet-like texture of the package.	56	65	-	-	-	
PP SILVER TC 30 Direct metallized, top-coated polypropylene film.	Eye-catching and decorative labels. Especially suitable for drinks industry, food and personal care labelling applications.	28	32	120 220	-	-	
PP SILVER TC 50 Direct-metallized, top-coated polypropylene film.	Eye-catching and decorative labels. Especially suitable for drinks industry, food and personal care labelling applications.	47	51	130 270	-	-	

UPM RAFLATAC FACE MATERIALS

FILMS
PET

Name and quality	Use	Substance g/ m ² ISO 5336	Caliper μ m	Ultimate elongation MD/CD	Gloss % 60°	Opacity % ISO 2471
PET WHITE TC 50 White, semi-gloss, top-coated polyester film.	Durable end-use applications requiring good resistance against heat, water, oil and chemicals, e.g. labelling on durable products, drums, PET containers and PET packages.	55	50	85 50	12	-
PET EXTRA WHITE TC 50 White, glossy, top-coated polyester film.	Durable end-use applications requiring good resistance against heat, water, oil and chemicals, e.g. labelling on durable products, drums, PET containers and PET packages.	75	50	130 80	57	55
PET GLOSS WHITE TC 50 White, glossy, top-coated polyester film.	Specially developed for labels in pharmaceutical and durable end-uses due to superb printability and excellent thermal and dimensional stability.	71	50	120 120	-	87
PET MATT WHITE 60 White, matt-coated, heat-stabilized polyester film.	Information labelling where overprinting is done by laser or thermal transfer. Recommended for drum and logistics labelling.	75	52	150 130	-	95
PET TRANSFER TC 75 White, top-coated polyester film.	Durable labelling requiring a stiff and enduring face material.	108	80	-	-	90
PET MATT SILVER TC 36 Top-coated, metallized, matt-coated polyester film.	Durable end-uses requiring good resistance against water, oil and chemicals, e.g. labelling on a wide range of household, garden and industrial applications.	51	37	-	-	-
PET MATT SILVER TC 50 Top-coated, metallized, matt-coated polyester film.	Durable end-uses requiring good resistance against water, oil and chemicals, e.g. labelling on a wide range of household, garden and industrial appliances.	70	50	140 100	-	-
PET BRUSHED BRIGHT SILVER TC 50 Top-coated, direct metallized polyester film with silver brushed finish.	Eye-catching product labelling and TTR-printed ID labels.	70	51	-	-	-
PET CLEAR TC 50 Ultraclear, glossy, top-coated polyester film.	Durable end-uses requiring good resistance against water, oil and chemicals, e.g. labelling on durable products, cosmetics with the no-label look, PET containers and PET packages.	70	50	100 60	-	-
PET CLEAR TC 36 Ultraclear, glossy, top-coated polyester film.	Durable end-uses requiring good resistance against water, oil and chemicals, e.g. labelling on durable and pharmaceutical products, cosmetics with the no-label look and on PET containers and packages.	50	36	165 140	-	-
PET OVERLAMINATING FILM 12 μ Gloss-clear polyester film.	Specially developed for overlaminating labels: gives 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 PE Gloss White Opaque TC PE Matt White Opaque Raflacoat Opaque Black Raflacoat Opaque Thermal Top Opaque P 200 Transfer Matt Opaque Vellum Opaque	ENG 965 ENG 439 ENG 458 ENG 050 ENG 374 ENG 481 ENG 059 ENG 310
SPECIAL THERMAL GRADES	Thermal Eco Card 100 Thermal Eco Board 130 Thermal Eco Board 150 Thermal Eco Board 180 Thermal Eco Board 220 Thermal Board Top 105 Thermal Board Top 150 Thermal Board Top 170 Luggage Tag Eco 300 Luggage Tag Top 200 Luggage Tag Toplite 200 Thermal Eco 300 Tag Thermal Top 200 Tag Synthermal P 200 Tag Thermalite Top 200 Synthermal Clear Synthermal Lite Thermal Top IR 200 Thermal Top RB 200	ENG 460 ENG 218 ENG 219 ENG 220 ENG 221 ENG 402 ENG 215 ENG 478 ENG 316 ENG 317 ENG 585 ENG 190 ENG 191 ENG 192 ENG 297 ENG 465 ENG 459 ENG 299
SPECIAL FILMIC MATERIALS	PE White Strong 75 Tyvek 75 Tyvek Brillon 55 Pharmaclear PP TC 50 Iridescent Gloss Yellow Iridescent Gloss Red/Green	ENG 108 ENG 850 ENG 112 ENG 512 ENG 279 ENG 278
TYRE AND OTHER ROUGH SUBSTRATES LABELLING	Raflatyre Roughtack Syntyre Syntyre TC 90 Thermaltyre Silvertyre PP TC	ENG 392 ENG 393 ENG 070 ENG 474 ENG 071 ENG 717

		Technical Information Sheet No.
TAMPER EVIDENT	Tamperproof Security White PE Clear Acetate 50 Foamed PS UD PVC	ENG 046 ENG 160 ENG 109 ENG 577 ENG 427
HOLOGRAPHIC	Holo Mirror Holo Rainbow Holo Sparkling Holo Stardust Holo Tetragon Holo Security	ENG 205 ENG 515 ENG 492 ENG 206 ENG 105 ENG 531
VOID	Void Silver TC Void Clear TC Void Text White TC Void Text Silver TC	ENG 516 ENG 091 ENG 095 ENG 096
DIGITAL	INDIGO Vellum IL Raflacoat Plus IL Raflabrite IL Raflabrite Opaque IL Castgloss IL Pharmagloss IL Silvervac IL Antique Cream Smooth WSA IL Antique White WSA IL PE Gloss White IL PE Gloss White IL 150 PE Gloss Clear IL PE Matt White IL PE Matt Clear IL PP Solid White IL 60 PP Clear IL 60 PP Silver IL Thermal Top P 200 IL Optimum Optimum Extra Foodgloss IL Pharmamatt IL Castgloss WSA 80 IL Raflamatt WSA 90 IL Multiprint White WSA IL Multiprint Ivoire WSA IL Fleur de Coton WSA IL Polyprint IL Rafwash Clear IL 60	ENG 033 ENG 211 ENG 079 ENG 080 ENG 022 ENG 023 ENG 024 ENG 039 ENG 196 ENG 068 ENG 499 ENG 067 ENG 035 ENG 034 ENG 026 ENG 025 ENG 140 ENG 456 ENG 429 ENG 759 ENG 204 ENG 729 ENG 725 ENG 728 ENG 724 ENG 730 ENG 726 ENG 462 ENG 212

UPM RAFLATAC ADHESIVES

PERMANENTS

Name and quality	Use	PERMANENTS						
		Tack, N, FTM 9 typical values	Shear, h, FTM 8 typical values	Labelling temperature min. °C	Service temperature min. °C	Service temperature min. °C	Short-term peak temperature °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	8	5	-20	80	130	
RP 37 Acrylic, water-borne.	Permanent adhesive for universal use with filmic face materials.	13	40	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 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.	18	8	0	-20	70	100	
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.	19	8	-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.	16	60	0	-40	60	100	
RH R5 Rubber hot melt.	Information labelling such as weigh-price labelling and other short-life applications in retail end-uses.	10	8	10	-10	50	70	
DEEP FREEZE								
RP 48 Acrylic, water-borne.	Deep freeze, permanent adhesive for product labelling.	12	8	-20	-40	60	70	
RH 3 Rubber hot melt.	Deep freeze, permanent adhesive. Excellent adhesion on moist and non-polar substrates.	14	2	-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 min. °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 29 Semi permanent adhesive for filmic labels.	RS29 has good long term removability with filmic materials, good clarity, UV stability and water resistance. Very suitable for open closure label applications in combination with filmic faces.	6	4	5	-10	80	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 24 Acrylic, water-borne.	Removable adhesive for paper labels. Good long-term removability from a wide variety of surfaces.	4	8	-5	-10	80	120
RR 28 Acrylic, water-borne.	Universal removable adhesive for filmic face materials. Very good UV resistance.	4	2	5	-10	80	120

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 min. °C	Short-term peak temperature max °C	Short-term peak temperature °C, max 5 mins.
RP 45 Acrylic, water-borne.	Permanent wash-off adhesive for use on plastic substrates.	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 30 Acrylic, water-borne.	Permanent adhesive for wine labelling applications, where wash-off properties are not required. Provides good adhesion to polar surfaces, even in moist conditions.	16	12	5	-20	80	100	
RP 31 PURUS Acrylic, water-borne.	Special permanent adhesive for pharmaceutical labelling. Recommended for applications where migration-safe properties are critical, especially when labelling HDPE containers with liquid contents.	12	10	10	-20	100	120	
RP 35 Acrylic dispersion.	Permanent adhesive for use with overlaminating films, where high clarity and good resistance properties are required.	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	
RD 300 Acrylic, solvent.	Strong solvent-acrylic permanent adhesive for demanding durable applications. Provides rugged adhesion on a wide range of substrates – including low surface energy plastics.	14	–	5	-40	150	180	
RD 932 Acrylic, solvent.	Very strong solvent-acrylic permanent adhesive for highly demanding durable applications. Excellent heat, chemical and UV resistance assure resilient adhesion for the lifecycle of products in a variety of challenging conditions.	17	–	5	-40	150	180	
RH T Rubber hot melt.	High-tack permanent adhesive for tyre labelling.	36	8	10	-20	40	45	

UPM RAFLATAC ADHESIVES

SPECIALTIES

Name and quality	Use	A4					
		Tack, N, FTM 9 typical values	Shear, h, FTM 8 typical values	Labelling temperature min. °C	Service temperature min. °C	Service temperature min. °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

Name and quality	Use	A4					
		Tack, N, FTM 9 typical values	Shear, h, FTM 8 typical values	Labelling temperature min. °C	Service temperature min. °C	Service temperature min. °C	Short-term peak temperature °C, max 5 mins.
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
RP A3 Modified acrylic dispersion.	General permanent adhesive for laser applications.	11	3	5	-10	100	120
RP AH Modified acrylic dispersion.	Strong permanent adhesive.	15	3	5	-10	100	120
RR A4 Rubber, water borne.	Removable adhesive for A4 applications.	5	2	-10	-30	80	110

UV HOT MELTS

Name and quality	Use	UV HOT MELTS					
		Tack, N, FTM 9 typical values	Peel 90 deg, steel, FTM 2 typical values	Labelling temperature min. °C	Service temperature min. °C	Service temperature min. °C	Short-term peak temperature °C, max 5 mins.
RC 10 Radiation-cured UV Acrylic.	Removable clear adhesive for universal use with filmic faces. Very good removability without leaving adhesive residue.	3	2	10	0	140	200
RC 12 Radiation-cured UV Acrylic.	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 Radiation-cured UV Acrylic.	Permanent adhesive for filmic face materials. Excellent clarity and chemical and temperature resistance.	12	7	10	-5	140	250
RC 15 Radiation-cured UV Acrylic.	Specially designed for filmic faces to provide outstanding adhesion on polar surfaces like glass, steel or ABS. Excellent temperature and chemical resistance.	18	14	10	-40	150	250
RC 18 Radiation-cured UV Acrylic.	Extra-permanent adhesive for filmic face materials. Very good chemical and temperature resistance.	18	13	5	-40	150	250
RC 20 Radiation-cured UV Acrylic.	Ultra-permanent adhesive for filmic face materials. For very rough and demanding substrates. High tack. Very good temperature and chemical resistance.	20	15	5	-40	150	250
RC 3P Radiation-cured UV Acrylic.	Specially designed for clear-on-clear pharmaceutical labelling. Outstanding mandrel performance. Excellent clarity and water and chemical resistance. Suitable for autoclave sterilization.	13	8	10	-20	140	-
RC 7B Radiation-cured UV Acrylic.	Specially designed for bottle labelling applications where excellent water and moisture resistance is required. This special UV-hotmelt adhesive shows good adhesion and stays clear even on wet bottles. Excellent temperature and water-whitening resistance, suitable for pasteurization.	14	8	10	-5	140	-

UPM RAFLATAC BACKING MATERIALS

Name and quality	Use	Substance g/m ²		Tensile strength kN/m		Transparency %
		44	53	MD	CD	
HONEY GLASSINE 45 Yellow, transparent glassine backing paper.	Thin backing paper for special applications (especially for retail weigh-price scales).	45	44	4.5 1.8	57	
HONEY GLASSINE 50 Yellow transparent glassine backing paper.	Thin backing paper for special applications.	50	46	5.5 2.2	54	
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 transparent glassine backing paper.	Backing paper for rollstock applications. Good with photocell dispensing systems.	62	55	6.7 2.5	51	
BLUE GLASSINE 65 Blue transparent glassine backing paper.	Transparent supercalendered surface-sized wood-free paper for all rollstock laminates.	62	55	7.0 3.1	47	
WHITE GLASSINE 85 White transparent glassine backing paper.	For rollstock laminates, especially for information labelling in fanfold applications.	78	69	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. applications.	Information labelling where good lay-flat properties are required. Suitable for fanfold applications.	76	71	6.4 1.9	–	

UPM RAFLATAC BACKING MATERIALS

Name and quality	Use	Substance g/m ²		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 STABILIZED 100 Kraft backing paper, matt-coated on reverse side.	A4 filmic applications for laser end-uses.	100	95	7.0 3.7	-	
POLYESTER CLEAR 25 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.	35	25	210* 220*		
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	200* 210*	-	
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.	50	36	190* 200*	-	
PROLINER PP30 Clear polypropylene backing material.	Specially designed for moist and humid conditions such as food and retail packaging. Good strength characteristics for high speed and difficult applications.	27	30	150 270	-	

RECOMMENDED USES

UPM RAFLATAC ADHESIVES

SPECIFIC SURFACES	RR 21	RR 28	RR A4	RP 30	RP 31	RP 37	RP 40	RP 45	RP 48	RP 51	RP 74	RP 77	RP A4	RH 1	RH 2	RH 3	RH 9
Convex, diameter less than 30 mm	D	C	B	B	A	B	B	C	D	B	B	B	A	C	A	D	B
Porous or rough	D	C	C	C	C	B	C	C	B	B	D	A	B	A	A	B	A
Hard and smooth	B	A	B	A	A	A	A	A	A	A	A	A	A	A	A	A	A
Warm, +80 °C	C	C	C	B	A	A	C	C	D	B	A	C	A	D	D	D	C
Cool, 0...+10 °C	B	C	A	B	B	B	A	B	A	A	C	A	B	A	B	A	A
Cold, -25...0 °C	B	C	B	C	D	C	C	C	A	B	D	C	C	B	C	A	C
Non-polar (PE)	A	B	A	B	B	B	B	A	A	A	C	A	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 current knowledge and experience. As our products are used in conditions beyond our control, we cannot assume any liability for damage caused through their use. This publication replaces all previous versions. 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

PROPERTY	METHOD					
	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 laminate	± 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
	6,000 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
	6,000 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 °C ± 2 °C 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.



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