UPM Paper grades

Recommendation for choosing profile and characterization data **(SFO, HSWO, CSWO)**

Sheetfed and Heatset Offset - ISO 12647-2

The Biofore Company UPM

Premium coated (PS1) - Sheetfed Offset (12647-2:2007 PT 1+2)

Brand	Grade	Finish	ISO/ECI Profile	FOGRA Char. Data	Screen Type	L/cm	lpi	TVI curve	L* (D50/2°) WB	a* (D50/2°) WB	b* (D50/2°) WB	L* (D50/2°) BB	a* (D50/2°) BB	b* (D50/2°) BB	Fluorescence	Comment
UPM Finesse gloss	WFC	gloss	ISOcoated_v2_eci.icc	FOGRA39L.txt	analogue	70-80	180-200	A(CMY), B(K)	96,3	1,4	-3,5	94,6	1,0	-4,1	moderate	a)
			PSO_Coated_NPscreen_ISO12647_eci.icc	FOGRA43L.txt	N.P. (=FM)		20µm	F(CMYK)								
UPM Finesse premium silk	WFC	silk	ISOcoated_v2_eci.icc	FOGRA39L.txt	analogue	60-70	150-180	A(CMY), B(K)	96,4	1,4	-3,2	95,3	1,0	-3,6	moderate	a)
			PSO_Coated_NPscreen_ISO12647_eci.icc	FOGRA43L.txt	N.P. (=FM)		20µm	F(CMYK)								
UPM Finesse silk	WFC	silk	ISOcoated_v2_eci.icc	FOGRA39L.txt	analogue	60-70	150-180	A(CMY), B(K)	96,0	1,6	-3,3	94,7	1,2	-3,7	moderate	a)
			PSO_Coated_NPscreen_ISO12647_eci.icc	FOGRA43L.txt	N.P. (=FM)		20µm	F(CMYK)								
UPM Sol	LWC	gloss	ISOcoated_v2_300_eci.icc	FOGRA39L.txt	analogue	60	150	B(CMY), C(K)	92,0	1,3	-1,8				moderate	c)
			PSO_Coated_NPscreen_ISO12647_eci.icc	FOGRA43L.txt	N.P. (=FM)		20µm	F(CMYK)								
UPM Sol silk	LWC	silk	ISOcoated_v2_300_eci.icc	FOGRA39L.txt	analogue	60	150	B(CMY), C(K)	93,5	0,9	-1,3				moderate	b)
			PSO_Coated_NPscreen_ISO12647_eci.icc	FOGRA43L.txt	N.P. (=FM)		25µm	F(CMYK)								
UPM Sol matt	LWC	matt	ISOcoated_v2_300_eci.icc	FOGRA39L.txt	analogue	60	150	B(CMY), C(K)	93,5	1,1	-1,3				moderate	b)
			PSO_Coated_NPscreen_ISO12647_eci.icc	FOGRA43L.txt	N.P. (=FM)		25µm	F(CMYK)								

Improved Coated (PS2) - Sheetfed Offset

Brand	Grade	Finish	ISO/ECI Profile	FOGRA Char. Data	Screen Type	L/cm	lpi	TVI curve	L* (D50/2°) WB	a* (D50/2°) WB	b* (D50/2°) WB	L* (D50/2°) BB	a* (D50/2°) BB	b* (D50/2°) BB	Fluorescence	Comment
UPM Nova	LWC	gloss	PSO_LWC_Improved.eci.icc	FOGRA45L.txt	analogue	60	150	B(CMY), C(K)	92	0,7	-1				low	c)
UPM Nova matt	LWC	silk	PSO_LWC_Improved.eci.icc	FOGRA45L.txt	analogue	60	150	B(CMY), C(K)	92	1	-0,5				low	b)

Wood-free uncoated (PS5) - Sheetfed Offset (12647-2:2007 PT 4)

Brand	Grade	Finish	ISO/ECI Profile	FOGRA Char. Data	Screen Type	L/cm	lpi	TVI curve	L* (D50/2°) WB	a* (D50/2°) WB	b* (D50/2°) WB	L* (D50/2°) BB	a* (D50/2°) BB	b* (D50/2°) BB	Fluorescence	Comment
UPM Fine	WFU	matt	PSO_Uncoated_ISO12647_eci.icc	FOGRA47L.txt	analogue	60	150	C(CMY), D(K)	93,7	2,5	-7,0	91,5	1,7	-6,5	high	a)
UPM Fine SC	WFU	silk	PSO_Uncoated_ISO12647_eci.icc	FOGRA47L.txt	analogue	60	150	C(CMY), D(K)	93,7	2,8	-7,3	92,5	2,3	-6,8	high	a)
UPM Book Premium Bulk 1.3	WFU	matt	PSO_Uncoated_ISO12647_eci.icc	FOGRA47L.txt	analogue	60	150	C(CMY), D(K)	92,5	3,0	-11,6				high	b)
UPM Book Premium Bulk 1.6	WFU	matt	PSO_Uncoated_ISO12647_eci.icc	FOGRA47L.txt	analogue	60	150	C(CMY), D(K)	92,8	2,8	-11,3				high	b)
UPM PrePersonal	Preprint	matt	PSO_Uncoated_ISO12647_eci.icc	FOGRA47L.txt	analogue	60	150	C(CMY), D(K)	92,9	2,8	-9,1	91,3	2,2	-8,2	high	a)
UPM PrePremium	Preprint	matt	PSO_Uncoated_ISO12647_eci.icc	FOGRA47L.txt	analogue	60	150	C(CMY), D(K)	93,0	3,9	-12,3				high	b)
all Brands also			PSO_Uncoated_NPscreen_ISO12647_eci.icc	FOGRA44L.txt	N.P. (=FM)		30µm	F(CMYK)								
all Brands also			ISOuncoated.icc	FOGRA29L.txt	analogue		60	C(CMY), D(K)								Old profile / Char. data

Premium coated (PS1) - Heatset Web Offset (12647-2:2007 PT1+2)

Brand	Grade	Finish	ISO/ECI Profile	FOGRA Char. Data	Screen Type	L/cm	lpi	TVI curve	L* (D50/2°) WB	a* (D50/2°) WB	b* (D50/2°) WB	L* (D50/2°) BB	a* (D50/2°) BB	b* (D50/2°) BB	Fluorescence	Comment
UPM Finesse gloss	WFC	gloss	ISOcoated_v2_300_eci.icc	FOGRA39L.txt	analogue	70-80	180-200	A(CMY), B(K)	95,1	1,5	-4,3	93,6	0,8	-4,7	moderate	a)
UPM Finesse premium silk	WFC	silk	ISOcoated_v2_300_eci.icc	FOGRA39L.txt	analogue	60-70	150-180	A(CMY), B(K)	95,4	1,5	-4,0	94,0	0,9	-4,4	moderate	a)
UPM Finesse matt	WFC	matt	ISOcoated_v2_300_eci.icc	FOGRA39L.txt	analogue	60	140-150	A(CMY), B(K)	95,4	1,8	-3,9	92,9	1,1	-4,1	moderate	a)
UPM Star H	MWC	gloss	ISOcoated_v2_300_eci.icc	FOGRA39L.txt	analogue	60-70	150	A(CMY), B(K)	93,8	1,3	-2,7	91,4	0,5	-3,7	moderate	a)
UPM Star silk H	MWC	silk	ISOcoated_v2_300_eci.icc	FOGRA39L.txt	analogue	60	150	A(CMY), B(K)	94,1	1,5	-2,9	92,9	0,8	-3,5	moderate	a)
UPM Star matt H	MWC	bulk	ISOcoated_v2_300_eci.icc	FOGRA39L.txt	analogue	60	150	A(CMY), B(K)	93,4	1,1	-1,3				moderate	b)
UPM Star matt 1.2 H	MWC	bulk	ISOcoated_v2_300_eci.icc	FOGRA39L.txt	analogue	60	150	A(CMY), B(K)	93,1	1,3	-1,3				moderate	b)
UPM Sol silk H	MWC	silk	ISOcoated_v2_300_eci.icc	FOGRA39L.txt	analogue	60	150	A(CMY), B(K)	93,5	1,0	-1,3				moderate	b)
all Brands also			PSO_Coated_300_NPscreen_ISO12647_eci.icc	FOGRA43L.txt	N.P. (=FM)		25µm	F(CMYK)								
all Brands also			ISOwebcoated.icc	FOGRA28L.txt	analogue	60	150	B(CMY), C(K)								Old profile / Char. data

UPM Paper grades

Recommendation for choosing profile and characterization data **(SFO, HSWO, CSWO)**

Sheetfed and Heatset Offset - ISO 12647-2

The Biofore Company UPM

Improved coated (PS2) - Heatset Web Offset

Brand	Grade	Finish	ISO/ECI Profile	FOGRA Char. Data	Screen Type	L/cm	lpi	TVI curve	L* (D50/2°) WB	a* (D50/2°) WB	b* (D50/2°) WB	L* (D50/2°) BB	a* (D50/2°) BB	b* (D50/2°) BB	Fluorescence	Comment
UPM Ultra H	LWC	gloss	PSO_LWC_Improved.eci.icc	FOGRA45L.txt	analogue	60	150	B(CMY), C(K)	92,9	1,0	-1,4	89,6	0,1	-3,0	moderate	a)
UPM Ultra silk H	LWC	silk	PSO_LWC_Improved.eci.icc	FOGRA45L.txt	analogue	60	150	B(CMY), C(K)	92,7	1,1	-0,7	89,7	0,3	-2,4	low	a)
UPM Ultra silk H NEW	LWC	satin	PSO_LWC_Improved.eci.icc	FOGRA45L.txt	analogue	60	150	B(CMY), C(K)	92,7	0,2	-1,0	90,3	0,1	-1,4	low	a)
UPM Cote Plus H	LWC	gloss	PSO_LWC_Improved.eci.icc	FOGRA45L.txt	analogue	60	150	B(CMY), C(K)	91,4	1,1	-1,5				moderate	a)
all Brands also			ISOwebcoated.icc	FOGRA28L.txt	analogue	60	150	B(CMY), C(K)								Old profile / Char. data

Standard glossy coated (PS3) - Heatset Web Offset (12647-2:2007 PT 3)

Brand	Grade	Finish	ISO/ECI Profile	FOGRA Char. Data	Screen Type	L/cm	lpi	TVI curve	L* (D50/2°) WB	a* (D50/2°) WB	b* (D50/2°) WB	L* (D50/2°) BB	a* (D50/2°) BB	b* (D50/2°) BB	Fluorescence	Comment
UPM Cote H	LWC	gloss	PSO_LWC_Standard.eci.icc	FOGRA46L.txt	analogue	60	150	B(CMY), C(K)	91,2	0,1	2,4	87,4	-0,4	0,6	faint	a)
UPM Cote H	LWC	gloss	ISOwebcoated.icc	FOGRA28L.txt	analogue	60	150	B(CMY), C(K)								Old profile / Char. data

Standard matte coated (PS4) - Heatset Web Offset

Brand	Grade	Finish	ISO/ECI Profile	FOGRA Char. Data	Screen Type	L/cm	lpi	TVI curve	L* (D50/2°) WB	a* (D50/2°) WB	b* (D50/2°) WB	L* (D50/2°) BB	a* (D50/2°) BB	b* (D50/2°) BB	Fluorescence	Comment
UPM Cote matt H	LWC	matt	PSO_MFC_paper_eci.icc	FOGRA41L.txt	analogue	60	150	B(CMY), C(K)	91,6	1,2	-1,0	89,6	0,8	-1,1	low	a)
UPM Cote silk H	MFC	satin	PSO_MFC_paper_eci.icc	FOGRA41L.txt	analogue	60	150	B(CMY), C(K)	91,5	0,0	-0,1	88,0	0,2	-1,2	faint	a)
UPM Cote matt 1.3 H	MFC	matt	PSO_MFC_paper_eci.icc	FOGRA41L.txt	analogue	54	133	B(CMY), C(K)	88,9	1,7	-2,3	87,4	1,3	-1,8	low	a)
all Brands also			ISOwebcoated.icc	FOGRA28L.txt	analogue	60	150	B(CMY), C(K)								Old profile / Char. data

Wood-free uncoated (PS5) - Heatset Web Offset (12647-2:2007 PT 4)

Brand	Grade	Finish	ISO/ECI Profile	FOGRA Char. Data	Screen Type	L/cm	lpi	TVI curve	L* (D50/2°) WB	a* (D50/2°) WB	b* (D50/2°) WB	L* (D50/2°) BB	a* (D50/2°) BB	b* (D50/2°) BB	Fluorescence	Comment
UPM Fine	WFU	matt	PSO_Uncoated_ISO12647_eci.icc	FOGRA47L.txt	analogue	60	150	C(CMY), D(K)	93,7	2,5	-7,0	91,5	1,7	-6,5	high	a)
UPM Fine SC	WFU	silk	PSO_Uncoated_ISO12647_eci.icc	FOGRA47L.txt	analogue	60	150	C(CMY), D(K)	93,7	2,8	-7,3	92,5	2,3	-6,8	high	a)
UPM Book Premium Bulk 1.3	WFU	matt	PSO_Uncoated_ISO12647_eci.icc	FOGRA47L.txt	analogue	60	150	C(CMY), D(K)	92,5	3,0	-11,6				high	b)
UPM Book Premium Bulk 1.6	WFU	matt	PSO_Uncoated_ISO12647_eci.icc	FOGRA47L.txt	analogue	60	150	C(CMY), D(K)	92,8	2,8	-11,3				high	b)
UPM Book Premium Silk	WFU	matt	PSO_Uncoated_ISO12647_eci.icc	FOGRA47L.txt	analogue	60	150	C(CMY), D(K)	93,1	2,5	-11,2				high	b)
UPM PrePersonal	Preprint	matt	PSO_Uncoated_ISO12647_eci.icc	FOGRA47L.txt	analogue	60	150	C(CMY), D(K)	93,7	2,5	-10,4				high	b)
UPM PrePremium	Preprint	matt	PSO_Uncoated_ISO12647_eci.icc	FOGRA47L.txt	analogue	60	150	C(CMY), D(K)	93,0	3,9	-12,3				high	b)
all Brands also			PSO_Uncoated_NPscreen_ISO12647_eci.icc	FOGRA44L.txt	N.P. (=FM)		35µm	F(CMYK)								
all Brands also			ISOuncoated.icc	FOGRA29L.txt	analogue	60	150	C(CMY), D(K)								Old profile / Char. data

Super calendered uncoated (PS6) - Heatset Web Offset

Brand	Grade	Finish	ISO/ECI Profile	FOGRA Char. Data	Screen Type	L/cm	lpi	TVI curve	L* (D50/2°) WB	a* (D50/2°) WB	b* (D50/2°) WB	L* (D50/2°) BB	a* (D50/2°) BB	b* (D50/2°) BB	Fluorescence	Comment
UPM Smart H	SC-A++	gloss	PSO_MFC_paper_eci.icc	FOGRA41L.txt	analogue	60	150	B(CMY), C(K)	91,0	0,5	1,0	88,0	0,2	-0,8	low	b); Profile: Indicative, not tested
UPM Cat H	SC-A+	gloss	SC_paper_eci.icc	FOGRA40L.txt	analogue	60	150	B(CMY), C(K)	90,5	-0,1	2,1	86,6	-0,6	0,5	low	
UPM ReCat H	SC-A	gloss	SC_paper_eci.icc	FOGRA40L.txt	analogue	60	150	B(CMY), C(K)								New Product - Data at online catalogue
UPM Max	SC-A	gloss	SC_paper_eci.icc	FOGRA40L.txt	analogue	60	150	B(CMY), C(K)	89,0	0,0	3,3	84,9	0,6	1,8	faint	a)
UPM Eco H	SC-B	gloss	SC_paper_eci.icc	FOGRA40L.txt	analogue	48	120	B(CMY), C(K)	88,7	-0,2	4,4	86,2	-0,8	2,2	faint	a)
UPM Eco X H	SC-B	matt	SC_paper_eci.icc	FOGRA40L.txt	analogue	48	120	B(CMY), C(K)	86,9	0,6	4,2				faint	b)

Improved uncoated (PS7) - Heatset Web Offset

Brand	Grade	Finish	ISO/ECI Profile	FOGRA Char. Data	Screen Type	L/cm	lpi	TVI curve	L* (D50/2°) WB	a* (D50/2°) WB	b* (D50/2°) WB	L* (D50/2°) BB	a* (D50/2°) BB	b* (D50/2°) BB	Fluorescence	Comment
UPM Eco Prime 69	MFS	matt	PSO_INP_Paper_eci.icc	FOGRA48L.txt	analogue	48	120	C(CMY), D(K)	88,7	-0,6	2,8	85,9	-0,6	1,2	faint	a)
UPM Eco Prime 72	MFS	matt	PSO_INP_Paper_eci.icc	FOGRA48L.txt	analogue	48	120	C(CMY), D(K)	88,7	-0,6	2,8	85,9	-0,6	1,2	low	a)
UPM Eco Prime 76	MFS	matt	PSO_INP_Paper_eci.icc	FOGRA48L.txt	analogue	48	120	C(CMY), D(K)	89,7	-0,5	2,9	86,4	-0,7	1,3	low	a)
UPM Book 72 bulk 1.65	MFS	matt	PSO_INP_Paper_eci.icc	FOGRA48L.txt	analogue	48	120	C(CMY), D(K)	88,0	0,9	3,0				low	b)
UPM EcoLite	MFS	matt	PSO_INP_Paper_eci.icc	FOGRA48L.txt	analogue	48	120	C(CMY), D(K)	86,6	0,7	0,7				low	b)
UPM Opalite plus	MFS	matt	PSO_INP_Paper_eci.icc	FOGRA48L.txt	analogue	48	120	C(CMY), D(K)	87,9	0,0	3,0	83,0	-0,5	1,2	faint	a)
UPM Color Salmon	News	matt	PSO_SNP_paper_eci.icc	FOGRA42L.txt	analogue	48	120	C(CMY), D(K)	82,0	10,1	18,8	79,9	6,5	15,0	none	a)
UPM Color Yellow	News	matt	PSO_SNP_paper_eci.icc	FOGRA42L.txt	analogue	48	120	C(CMY), D(K)	85,5	-4,8	35,5	82,8	-5,8	29,9	none	a)

Standard uncoated (PS8) - Heatset Web Offset

Brand	Grade	Finish	ISO/ECI Profile	FOGRA Char. Data	Screen Type	L/cm	lpi	TVI curve	L* (D50/2°) WB	a* (D50/2°) WB	b* (D50/2°) WB	L* (D50/2°) BB	a* (D50/2°) BB	b* (D50/2°) BB	Fluorescence	Comment
UPM Eco Prime 68	MFS	matt	PSO_SNP_paper_eci.icc	FOGRA42L.txt	analogue	48	120	C(CMY), D(K)	88,2	-0,8	6,0	85,1	-1,2	3,8	faint	a)
UPM Book 68 bulk 1.65	MFS	matt	PSO_SNP_paper_eci.icc	FOGRA42L.txt	analogue	48	120	C(CMY), D(K)	87,1	0,9	3,5				low	b)
UPM Opalite	MFS	matt	PSO_SNP_paper_eci.icc	FOGRA42L.txt	analogue	48	120	C(CMY), D(K)	87,1	0,4	5,2	80,6	0,0	2,6	faint	a)
UPM EcoBasic	News	matt	PSO_SNP_paper_eci.icc	FOGRA42L.txt	analogue	48	120	C(CMY), D(K)	85,7	0,4	6,1	84,0	0,0	3,4	faint	a)

UPM Paper grades

Recommendation for choosing profile and characterization data **(SFO, HSWO, CSWO)**

Coldset Offset - ISO 12647-3

The Biofore Company UPM

Uncoated Woodfree - Coldset Offset

Brand	Grade	Finish	ISO/ECI Profile	FOGRA Char. Data	Screen Type	L/cm	lpi	TVI curve	L* (D50/2°) WB	a* (D50/2°) WB	b* (D50/2°) WB	L* (D50/2°) BB	a* (D50/2°) BB	b* (D50/2°) BB		Comment
UPM Fine	WFU	matt	PSO_Uncoated_ISO12647_eci.icc	FOGRA47L.txt	analogue	60	150	C(CMY), D(K)	93,7	2,5	-7,0	91,5	1,7	-6,5		Profile indicative, not teste

Coated Newsprint - Coldset Offset

Brand	Grade	Finish	ISO/ECI Profile	FOGRA Char. Data	Screen Type	L/cm	lpi	TVI curve	L* (D50/2°) WB	a* (D50/2°) WB	b* (D50/2°) WB	L* (D50/2°) BB	a* (D50/2°) BB	b* (D50/2°) BB		Comment
UPM Matt C	MFC	matt	PSO_MFC_paper_eci.icc	FOGRA41L.txt	analogue	54	133	B(CMY), C(K)								Profile indicative, not teste

Uncoated improved Newsprint - Coldset Offset

Brand	Grade	Finish	ISO/ECI Profile	FOGRA Char. Data	Screen Type	L/cm	lpi	TVI curve	L* (D50/2°) WB	a* (D50/2°) WB	b* (D50/2°) WB	L* (D50/2°) BB	a* (D50/2°) BB	b* (D50/2°) BB		Comment
UPM Brite C	MFS	matt	ISOnewspaper26v4.icc (IFRA)	IFRA26	analogue	40	100	26%								
UPM Book	MFS	matt	ISOnewspaper26v4.icc (IFRA)	IFRA26	analogue	40	100	26%								
UPM Opalite	MFS	matt	ISOnewspaper26v4.icc (IFRA)	IFRA26	analogue	40	100	26%								
UPM Color Salmon	MFS	matt	ISOnewspaper26v4.icc (IFRA)	IFRA26	analogue	40	100	26%								
UPM Color Yellow	MFS	matt	ISOnewspaper26v4.icc (IFRA)	IFRA26	analogue	40	100	26%								

Uncoated Newsprint - Coldset Offset

Brand	Grade	Finish	ISO/ECI Profile	FOGRA Char. Data	Screen Type	L/cm	lpi	TVI curve	L* (D50/2°) WB	a* (D50/2°) WB	b* (D50/2°) WB	L* (D50/2°) BB	a* (D50/2°) BB	b* (D50/2°) BB		Comment
UPM News C	News	matt	ISOnewspaper26v4.icc (IFRA)	IFRA26	analogue	40	100	26%								

Notes:

a) Measurement condition for Papershade: ISO 13655, M0; D50/2°
Measurement Device: Techkon RS800
Measured samples from: UPM Paper Sample books 2011

b) Measurement condition for Papershade: ISO 13655, M0; D50/2°
Measurement Device: X-Rite SpectroEye
Measured samples from: Production

c) Measurement condition for Papershade: ISO 13655, M0; D50/2°
Measurement Device: Spectroscan Gretag Macbeth
Measured samples from: Measurements values taken from Myllykoski product information (Shade targets may subject to change)

Paper Classification for SFO and HSWO papers (e.g. Premium coated) are indicated according to the new Print substrate classification in next revision of ISO 12647-2:2014

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