



UPM FINE

The name says it all. UPM Fine. It provides high brightness, optimal opacity and outstanding suitability for processing. UPM Fine is a flexible multi-use paper. It's ideal grade for flyers, business reports, magazines and posters.

UPM FINE:

Category:	Sheet fed offset papers
Grade:	Woodfree uncoated (WFU)
End use:	Advertising material, Books, Business forms, Direct mailing, Magazines, Newspaper supplements, Posters
Finish:	Machine finished
Furnish:	Hardwood and softwood sulphate pulp
Printing Method:	Sheet fed offset
Format/Size:	Sheets
Wrapping:	Strong kraft paper, Strong moisture proof polyethylene laminated kraft paper
Certificates and Labels:	94/62 EC Heavy Metal Certificate, BfR Food Certificate, EMAS, EN 71/3:1988 D Safety of Toys, EU Ecolabel, FSC Chain-of-Custody, ISO 14001, ISO 50001, ISO 9001, OHSAS 18001, PEFC Chain-of-Custody, Permanent Paper ISO 9706
Note:	FSC® and PEFC™ on request but subject to availability. Energy Management System ISO 50001 in place at Nordland Mill. We have changed into another measurement system, which causes changes in the technical target values. The change does not have any effect on product quality.

TECHNICAL TARGET VALUES

Basis Weight (ISO 536) (g/m²)	60.0	70.0	80.0	90.0	100.0	110.0	120.0	140.0	150.0	170.0	190.0	250.0	300.0	350.0
Thickness (ISO 534) (µm)	75.0	90.0	102.0	114.0	125.0	134.0	143.0	163.0	174.0	187.0	207.0	272.0	326.0	374.0
Bulk (ISO 534) (cm³/g)	1.25	1.28	1.28	1.27	1.25	1.22	1.19	1.16	1.16	1.10	1.10	1.09	1.09	1.07
Brightness D65 (ISO 2470-2) (%)	105.0	105.0	105.0	105.0	105.0	105.0	105.0	105.0	105.0	105.0	105.0	105.0	105.0	105.0
CIE Whiteness (%)	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0
Opacity ISO (2471) (%)	87.0	90.0	92.5	94.5	95.5	96.5	97.0	98.0	98.5	99.0	99.5	99.7	99.9	99.9
Roughness Bendtsen (ISO 8791-2) (ml/min)	200.0	250.0	250.0	250.0	250.0	250.0	250.0	250.0	250.0	250.0	250.0	250.0	250.0	250.0

Please note: Technical values are informative and subject to production variations

PREPRESS GUIDELINES

CIE L*-value (D50/2°) WB	93.7
CIE a*-value (D50/2°) WB	2.5
CIE b*-value (D50/2°) WB	-7.0
Max. Total Area (TAC%)	300
ICC Paper profile	PSO_Uncoated_ISO12647_eci.icc
Characterisation data	FOGRA47L.txt
TVI Curve	C(CMY), D(K)
AM Screen recommendation (l/cm)	60
ISO/ECI Profile (FM)	PSO_Uncoated_NPscreen_ISO12647_eci.icc
FOGRA Char. Data (FM)	FOGRA44L.txt
TVI Curve (FM)	F(CMYK)
FM Screen recommendation (µm)	30
Measurement condition for D50	ISO 13655, M0; D50/2°
Measurement equipment	Techkon RS800