

## 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:

<b>Category</b>	Sheet fed offset papers
<b>Grade</b>	Woodfree uncoated (WFU)
<b>End use</b>	Advertising material   Books   Business forms   Direct mailing   Magazines   Newspaper supplements   Posters
<b>Finish</b>	Machine finished
<b>Furnish</b>	Hardwood and softwood sulphate pulp
<b>Printing method</b>	Sheet fed offset
<b>Format/Size</b>	Sheets
<b>Wrapping</b>	Strong kraft paper   Strong moisture proof polyethylene laminated kraft paper
<b>Certificates and labels</b>	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
<b>Note</b>	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:

<b>Basis Weight (ISO 536) (g/m<sup>2</sup>)</b>	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
<b>Thickness (ISO 534) (µm)</b>	75.0	88.0	100.0	113.0	123.0	132.0	143.0	161.0	172.0	189.0	209.0	274.0	329.0	380.0
<b>Bulk (ISO 534) (cm<sup>3</sup>/g)</b>	1.25	1.25	1.25	1.25	1.23	1.20	1.19	1.15	1.15	1.11	1.10	1.10	1.10	1.09
<b>Brightness D65 (ISO 2470-2) (%)</b>	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
<b>CIE Whiteness (%)</b>	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
<b>Opacity ISO (2471) (%)</b>	87.5	90.5	92.5	94.5	95.5	96.5	97.0	98.0	98.5	99.0	99.5	99.7	99.9	99.9
<b>Roughness Bendtsen (ISO 8791-2) (ml/min)</b>	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:

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