



## 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 for anything from flyers to business reports and from magazines to 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.

## ▼ 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
<b>Thickness (ISO 534) (µm)</b>	79.0	90.0	100.0	114.0	123.0	130.0	140.0	160.0	172.0	185.0	205.0	275.0	335.0
<b>Bulk (ISO 534) (cm<sup>3</sup>/g)</b>	1.30	1.28	1.27	1.25	1.23	1.21	1.17	1.14	1.14	1.10	1.10	1.10	1.10
<b>Brightness D65 (ISO 2470-2) (%)</b>	103.0	103.0	103.0	103.0	103.0	103.0	103.0	103.0	103.0	103.0	103.0	103.0	103.0
<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
<b>Opacity (%)</b>	87.5	90.0	92.5	94.0	95.5	96.5	97.0	98.0	98.5	99.0	99.5	99.7	99.9
<b>Roughness Bendtsen (ISO 8791-2) (ml/min)</b>	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

## ▼ 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>Characterisation data</b>	FOGRA47L.txt
<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