

## MUNKEN POLAR ROUGH

Extraordinary printing demands extraordinary design paper. The uncoated, extra tactile surface of Munken Polar Rough and its crisp white shade make a perfect combination for well-defined images and even more of a natural paper feel. Thanks to high bulk you can choose a lower grammage and keep thickness as well as paper stability for the best final result. Munken Polar Rough is developed for offset print and also suitable for various kinds of printing techniques; flexo, laser, xerography, digital printing, inkjet and for preprint applications. Also available is a natural white, Munken Lynx Rough, a cream shaded version, Munken Pure Rough and the highwhite Munken Kristall Rough. Munken Polar Rough standard products are available as FSC™, PEFC and EU Ecolabel certified.



### BASIC INFORMATION

Optimized for colour printing.  
Available in sheets. Available in reels

### ENVIRONMENT / SAFETY

EU Ecolabel, ECF, ISO 14001, EMAS, Paper Profile, Safety of Toys, Food contact, Age resistant (ISO 9706), Woodfree, FSC\_C020637, The paper is inspected for Nordic Ecolabelled printing, PEFC\_053399

### PRINTING TECHNIQUES

Offset, Flexo, Laser, Inkjet  
(black/white)

### SHADE

Highwhite

### SURFACE

Uncoated, Rough

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Grammage (g/m <sup>2</sup> )	90	100	120	150	170	300 <sup>B</sup>
Opacity (%)	91	93	95	97	98	100
Thickness (µm)	123	140	168	210	238	420
Bulk (thickness/grammage)	1.4	1.4	1.4	1.4	1.4	1.4
Whiteness (CIE)	145	145	145	145	145	145
Brightness (ISO 2470/D65 %)	109	109	109	109	109	109
Roughness (Bendtsen, ml/min)	550	550	550	550	550	550

Screen recommended 133-150 lpi

<sup>B</sup> Laminated paper

Values are targets only and can be subject to changes over time without prior notice.