

Munken Kristall Rough

Extraordinary printing demands extraordinary design paper. The uncoated, extra tactile surface of Munken Kristall Rough and its true highwhite 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 Kristall 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. The Munken Design range is also available as a cream shade – Munken Pure Rough, a natural white version – Munken Lynx Rough and a crisp white – Munken Polar Rough.

Munken Kristall Rough standard products are available as EU Ecolabel, FSC® – The mark of responsible forestry. www.fsc.org. FSC-C020637 and PEFC – (Programme for the Endorsement of Forest Certification schemes). www.pefc.org. PEFC/05-33-99 certified.



The mark of responsible forestry



Technical specifications

Basic information:	Optimized for colour printing, Available in sheets, Available in reels
Surface:	Rough, Uncoated
Shade:	HighWhite
Printing techniques:	Offset, Flexo, Laser, Inkjet (black/white)
Certificates/Statements:	FSC_C020637, PEFC_053399, EU Ecolabel, The paper is inspected for Nordic Ecolabelled printing, ECF, EMAS, Paper Profile, Safety of Toys, Food contact, Age resistant (ISO 9706), Woodfree, Cradle to Cradle Certified®, ISO 9001, ISO 50001, ISO 14001

Munken Kristall Rough

Grammage (g/m²)	100	120	150	170	300 ^B	360 ^C	420 ^C	450 ^C	960 ^C	1200 ^C
Opacity (%)	94	96	98	98	100	100	100	100	100	100
Thickness (µm)	140	168	210	238	420	504	588	630	1400	1700
Bulk (thickness/grammage)	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
Whiteness (CIE)	157	157	157	157	157	157	157	157	157	157
Brightness (ISO 2470/D65 %)	112	112	112	112	112	112	112	112	112	112
Roughness (Bendtsen, ml/min)	550	550	550	550	550	550	550	550	550	550

^B Laminated paper

^C Laminated and optimized paper for exclusive luxury packaging, boxes or artwork with higher strength and stiffness.

Screen recommended 133-150 lpi

Values are targets only and can be subject to changes over time without prior notice. You will find the latest technical information and other technical recommendations about our products at arcticpaper.com