

EXTRAROUGH Coldwhite Datasheet

Grammage	ISO 536	g/m2	105	120	150	175	270	350	430
Grain direction (source format)	102 x 72		LG/SG	LG/SG	LG/SG	LG/SG	SG	SG *	SG *
Thickness	ISO 534	µm	136,5	156	195	227,5	351	455	559
Bulk	ISO 534	cm3/g	1,3	1,3	1,3	1,3	1,3	1,3	1,3
Roughness Bendtsen	ISO 8791-2	ml/min	837	837	837	837	837	837	837
Smoothness Sheffield	ISO 8791-3	s	290	290	290	290	290	290	290
Brightness	ISO 2471 (D65)	%							
Opacity	ISO 2471	%	93	94	96	97	98	99	99,5
Whiteness	ISO 11475	%	160	160	160	160	160	160	160
Indigo			certified						
Additional print processes			Toner, Riso (up to 270gsm), Letterpress (from 270gsm onwards), Offset						
Suitable for preprint			yes	yes	yes				

Tolerances ±

Grammage	ISO 536	g/m2	3	3	4	4	7	8	8
Thickness	ISO 534	µm	3	3	3	5	7	8	8
Bulk	ISO 534	cm3/g							
Roughness Bendtsen	ISO 8791-2	ml/min	100	100	100	100	100	100	100
Smoothness Sheffield	ISO 8791-3	s	50	50	50	50	50	50	50
Brightness	ISO 2471 (D65)	%							
Opacity	ISO 2471	%							
Whiteness	ISO 11475	%	3	3	3	3	3	3	3

GREEN RESPONSIBILITY

FSC Mix: SGSCH-COC-009212

* laminated

Production: acid free, formaldehyde free
 100% regenerative energy (wind), CO2 neutral
 vegan

EXTRAROUGH White Datasheet

Grammage	ISO 536	g/m2	105	120	150	175	270	324	350	430
Grain direction (source format)	102 x 72		SG/SG	LG/SG	LG/SG	LG/SG	LG/SG	LG **	SG *	SG *
Thickness	ISO 534	µm	136,5	156	195	227,5	351	421	455	559
Bulk	ISO 534	cm3/g	1,3	1,3	1,3	1,3	1,3	1,3	1,3	1,3
Roughness Bendtsen	ISO 8791-2	ml/min	837	837	837	837	837	837	837	837
Smoothness Sheffield	ISO 8791-3	s	290	290	290	290	290	290	290	290
Brightness	ISO 2471 (D65)	%								
Opacity	ISO 2471	%	94	95	96	97	98	99,5	99	99,5
Whiteness	ISO 11475	%	145	145	145	145	145	145	145	145
Indigo			certified							
Additional print processes			Toner, Riso (up to 270gsm), Letterpress (from 270gsm onwards), Offset							
Suitable for preprint			yes	yes	yes					

Tolerances ±

Grammage	ISO 536	g/m2	3	3	4	4	7	7	8	8
Thickness	ISO 534	µm	3	3	3	5	7	7	8	8
Bulk	ISO 534	cm3/g								
Roughness Bendtsen	ISO 8791-2	ml/min	100	100	100	100	100	100	100	100
Smoothness Sheffield	ISO 8791-3	s	50	50	50	50	50	50	50	50
Brightness	ISO 2471 (D65)	%								
Opacity	ISO 2471	%								
Whiteness	ISO 11475	%	3	3	3	3	3	3	3	3

GREEN RESPONSIBILITY

FSC Mix: SGSCH-COC-009212

Production: acid free, formaldehyde free
 100% regenerative energy (wind), CO2 neutral
 vegan

Fresh fiber: 71 - 75% (rest: filling materials, sizing, moisture)

* laminated

** source format
 527 x 748

EXTRAROUGH RECYCLING White Datasheet

Grammage	ISO 536	g/m2	105	120	150	175	270	350
Grain direction (source format)			LG/SG	LG/SG	LG/SG	SG	SG	SG *
Thickness	ISO 534	µm	136,5	156	195	227,5	351	455
Bulk	ISO 534	cm3/g	1,3	1,3	1,3	1,3	1,3	1,3
Roughness Bendtsen	ISO 8791-2	ml/min	837	837	837	837	837	837
Smoothness Sheffield	ISO 8791-3	s	260	260	260	290	290	290
Brightness	ISO 2471 (D65)	%						
Opacity	ISO 2471	%	96	97	97	98	99	99
Whiteness	ISO 11475	%	134	134	134	134	134	134
Indigo			certified					
Additional print processes			Toner, Riso (up to 270gsm), Letterpress (from 270gsm onwards), Offset					
Suitable for preprint			yes	yes	yes			

Tolerances ±

Grammage	ISO 536	g/m2	3	3	4	4	7	8
Thickness	ISO 534	µm	3	3	3	5	7	8
Bulk	ISO 534	cm3/g						
Roughness Bendtsen	ISO 8791-2	ml/min	100	100	100	100	100	100
Smoothness Sheffield	ISO 8791-3	s	50	50	50	50	50	50
Brightness	ISO 2471 (D65)	%						
Opacity	ISO 2471	%						
Whiteness	ISO 11475	%	3	3	3	3	3	3

GREEN RESPONSIBILITY

FSC Recycled: SGSCH-COC-009212

* laminated

100% Post Consumer Waste

Production: acid free, formaldehyde free, without optical brighteners

100% regenerative energy (wind), CO2 neutral

vegan

EXTRAROUGH Warmwhite Datasheet

Grammage	ISO 536	g/m2	105	120	150	175	270	324	350	430
Grain direction (source format)	102 x 72		LG/SG	LG/SG	LG/SG	LG/SG	SG	LG **	SG *	SG *
Thickness	ISO 534	µm	136,5	156	195	227,5	351	421	455	559
Bulk	ISO 534	cm3/g	1,3	1,3	1,3	1,3	1,3	1,3	1,3	1,3
Roughness Bendtsen	ISO 8791-2	ml/min	837	837	837	837	837	837	837	837
Smoothness Sheffield	ISO 8791-3	s	290	290	290	290	290	290	290	290
Brightness	ISO 2471 (D65)	%								
Opacity	ISO 2471	%	94	95	96	97	98	99,5	99	99,5
Whiteness	ISO 11475	%	78	78	78	78	78	78	78	78
Indigo			certified							
Additional print processes			Toner, Riso (up to 270gsm), Letterpress (from 270gsm onwards), Offset							
Suitable for preprint			yes	yes	yes					

Tolerances ±

Grammage	ISO 536	g/m2	3	3	4	4	7	7	8	8
Thickness	ISO 534	µm	3	3	3	5	7	7	8	8
Bulk	ISO 534	cm3/g								
Roughness Bendtsen	ISO 8791-2	ml/min	100	100	100	100	100	100	100	100
Smoothness Sheffield	ISO 8791-3	s	50	50	50	50	50	50	50	50
Brightness	ISO 2471 (D65)	%								
Opacity	ISO 2471	%								
Whiteness	ISO 11475	%	3	3	3	3	3	3	3	3

GREEN RESPONSIBILITY

FSC Mix: SGSCH-COC-009212
 Production: acid free, formaldehyde free, without optical brighteners
 100% regenerative energy (wind), CO2 neutral
 vegan

* laminated
 ** source format
 527 x 748