BILLERUDKORSNÄS

Technical data sheet

Date: January 20 2017

Xpression Swan

WHITE MF KRAFT PAPER

Production Unit: Pietarsaari

End uses
Xpression Swan is a packaging paper with focus on strength and runnability. Xpression Swan is used for carrier bags.

Grammages
60-120 g/m^2

Materials
Xpression Swan is produced from pure, white kraft pulp and consists entirely of virgin fibres. Xpression Swan is soft calendered and long fiber based, including short fibres.

Approvals
Xpression is produced in compliance with BfR and FDA food packaging norms.

Certification
Pietarsaari mill is certified in accordance with ISO 9001, ISO 14001, OHSAS 18001 and FSSC 22000. Xpression Swan is available as FSC® Certified paper (FSC-C113010) or PEFC™ (PEFC/02-31-216) certified material.

Property	Unit												Method
Grammage	g/m^2		60	65	70	75	80	85	90	100	110	120	ISO 536
Thickness	µm		75	81	88	94	100	104	110	120	130	140	ISO 534
Tensile strength	kN/m	MD	6.0	6.5	7.0	7.5	8.0	8.5	9.0	10.0	11.0	12.0	ISO 1924-3
	kN/m	CD	3.3	3.6	3.9	4.1	4.4	4.7	5.0	5.5	6.0	6.6	
Tensile index	Nm/g	MD	100	100	100	100	100	100	100	100	100	100	ISO 1924-3
	Nm/g	CD	55	55	55	55	55	55	55	55	55	55	
Stretch	%	MD	1.9	1.9	2.0	2.0	2.0	2.1	2.2	2.3	2.4	2.4	ISO 1924-3
	%	CD	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	
TEA	J/m^2	MD	78	85	90	98	105	110	120	130	140	160	ISO 1924-3
	J/m^2	CD	155	170	180	195	210	220	235	260	285	310	
TEA Index	J/g	MD	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	ISO 1924-3
	J/g	CD	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	
Tear strength	mN	MD	600	650	700	750	800	930	990	1100	1210	1440	ISO 1974
	mN	CD	660	710	770	820	880	1020	1080	1200	1320	1560	
Tear index	mNm^2/g	MD	10.0	10.0	10.0	10.0	10.0	11.0	11.0	11.0	11.0	12.0	ISO 1974
	mNm^2/g	CD	11.0	11.0	11.0	11.0	11.0	12.0	12.0	12.0	12.0	13.0	
Burst strength	kPa		240	260	290	315	345	365	395	440	485	540	ISO 2758
Burst index	kPa m^2/g		4.0	4.0	4.1	4.2	4.3	4.3	4.4	4.4	4.4	4.5	
Roughness	ml/min	WS	180	180	180	180	200	200	200	250	250	300	ISO 8791-2
	ml/min	TS	250	250	300	300	300	300	350	400	400	400	
Brightness	%		85	85	85	85	85	85	85	85	85	85	ISO 2470
Cobb 60s	g/m^2	WS	28	28	28	28	28	28	28	28	28	28	ISO 535
Air resistance	s		40	40	42	42	44	44	46	46	60	66	ISO 5636-5
Moisture	%		7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	ISO 287

MD = Machine Direction
CD = Cross Direction
TS = Top side
WS = Smooth Wire side (winded outside)
Test climate: 50% RH, 23C
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The table shows typical values