BILLERUDKORSNÄS

Technical data sheet

Date: January 20 2017

Xpression Natural Brown

BROWN UNGLAZED KRAFT PAPER

Production Unit: Pietarsaari

End uses
Xpression Natural Brown is a brown packaging paper with focus on strength and runnability and suitable for carrier bags where strength is in focus.

Grammages
60-125 g/m^2

Materials
Xpression Natural Brown is produced from pure, brown kraft pulp and consists entirely of virgin fibres. The long and strong fibres, from the Nordic slowly growing softwood forests, give the paper its inherent strength and rigidity.

Approvals
Xpression Natural Brown 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 Natural Brown is available as FSC® Certified paper (FSC-C113010) or PEFC™ (PEFC/02-31-216) certified material.

Property	Unit									Method
Grammage	g/m^2		60	70	80	90	100	110	125	ISO 536
Thickness	µm		93	104	118	131	144	160	175	ISO 534
Tensile strength	kN/m kN/m	MD CD	6.7 3.5	7,8 4.1	9.0 4.6	10.1 5.2	11.2 5.8	12.3 6.4	14.0 7.3	ISO 1924-3
Tensile index	Nm/g Nm/g	MD CD	112 58	112 58	112 58	112 58	112 58	112 58	112 58	ISO 1924-3
Stretch	% %	MD CD	2.1 6.5	2.2 6.5	2.3 6.5	2.3 6.5	2.4 6.5	2.6 6.5	2.6 6.5	ISO 1924-3
TEA	J/m^2 J/m^2	MD CD	80 160	110 210	125 240	140 270	160 300	175 330	225 375	ISO 1924-3
TEA Index	J/g J/g	MD CD	1.3 2.7	1.6 3.0	1.6 3.0	1.6 3.0	1.6 3.0	1.6 3.0	1.8 3.0	ISO 1924-3
Tear strength	mN mN	MD CD	660 690	800 870	960 1080	1120 1200	1300 1400	1430 1540	1750 1875	ISO 1974
Tear index	mNm^2/g mNm^2/g	MD CD	11 11,5	11.5 12.5	12 13	12.5 13.5	13 14	13 14	14 15	ISO 1974
Burst strength Burst index	kPa kPam^2/g		300 5.0	365 5.2	430 5.4	490 5.5	560 5.6	620 5.7	740 5.9	ISO 2758
Cobb 60s	g/m^2	WS	30	30	30	30	30	30	31	ISO 535
Air resistance	s		23	23	23	23	23	28	37	ISO 5636-5
Moisture	%		7.5	7.5	7.5	7.5	7.5	7.5	7.5	ISO 287

MD = Machine Direction
CD = Cross Direction

TS = Top side
WS = Wire side (winded outside)

Test climate: 50% RH, 23C

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The table shows typical values