

Xpression Fine WHITE MF KRAFT PAPER

Production Unit: Pietarsaari

End uses

Xpression Fine is a packaging paper with focus on printability and strength. Xpression Fine is used for carrier bags, and especially fashion carrier bags.

Grammages

60-130 g/m²

Materials

Xpression Fine is produced from pure, white kraft pulp and consists entirely of virgin fibres. Xpression Fine is soft calendered and contains fillers to achieve its characteristic whiteness and higher opacity.

Approvals

Xpression Fine 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 Fine 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	75	80	85	90	95	100	105	110	120	130	ISO 536
Thickness	µm		73	85	90	95	100	105	110	115	120	125	135	145	ISO 534
Tensile strength	kN/m kN/m	MD	5.1	6.0	6.4	6.8	7.2	7.6	8.1	8.5	8.9	9.3	10.2	11.0	ISO 1924-3
		CD	3.0	3.5	3.7	4.0	4.2	4.5	4.7	5.0	5.2	5.5	6.0	6.5	
Tensile index	Nm/g Nm/g	MD	85	85	85	85	85	85	85	85	85	85	85	85	ISO 1924-3
		CD	50	50	50	50	50	50	50	50	50	50	50	50	
Stretch	% %	MD	1.9	2.0	2.0	2.0	2.0	2.1	2.1	2.1	2.1	2.2	2.4	2.4	ISO 1924-3
		CD	7.0	7.0	7.0	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	
TEA	J/m ² J/m ²	MD	72	84	90	96	102	108	114	120	125	130	145	155	ISO 1924-3
		CD	150	175	190	200	210	225	240	250	260	275	300	325	
TEA Index	J/g J/g	MD	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	ISO 1924-3
		CD	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	
Tear strength	mN mN	MD	480	630	670	760	810	850	900	950	1000	1100	1260	1350	ISO 1974
		CD	510	660	710	800	850	900	950	1000	1050	1150	1320	1430	
Tear index	mNm ² /g mNm ² /g	MD	8.0	9.0	9.0	9.5	9.5	9.5	9.5	9.5	9.5	10.0	10.5	10.5	ISO 1974
		CD	8.5	9.5	9.5	10.0	10.0	10.0	10.0	10.0	10.0	10.5	11.0	11.0	
Burst strength Burst index	kPa kPam ² /g		210	250	270	290	305	325	350	380	410	430	480	520	ISO 2758
			3.5	3.6	3.6	3.6	3.6	3.6	3.7	3.8	3.9	3.9	4.0	4.0	
Roughness	ml/min ml/min	WS	120	120	120	130	130	140	140	140	150	150	150	160	ISO 8791-2
		TS	200	200	200	200	200	250	250	250	300	300	300	300	
Whiteness	%		88	88	88	88	88	88	88	88	88	88	88	88	ISO 11475
Cobb 60s	g/m ²	WS	26	26	26	26	26	26	26	26	26	26	26	26	ISO 535
Air resistance	s		60	65	65	70	70	75	75	75	75	75	80	90	ISO 5636-5
Moisture	%		7.2	7.2	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