

75g/m² 80g/m² 90g/m² 100g/m² 120g/m² Tolerance

OPTICAL PARAMETERS

Whiteness CIE	ISO 11475	164	164	164	164	164	+/-3
Brightness D65 %	ISO 2470	111	111	111	111	111	+/-3
Opacity %	ISO 2471	93	95	96	97	98	-2

PHYSICAL PARAMETERS

Basis Weight g/m ²	ISO 536	75	80	90	100	120	+1.5 / -3 (75) +/- 4 (80,90,100,120)
Thickness µm	ISO 534	103	108	114	118	126	+3 / -2 (75) +/-3 (80,90) +/-2 (100,120)
Stiffness MD/CD mN	ISO 2493	100/35	120/40	140/50	170/60	220/90	Minimum
Tensile MD kN/m	ISO 1924/2	5	5.5	6	7	8	Minimum
Formation #	ME-PAP-010	25	30	30	40	45	Minimum
Air Permeability ml/min	ISO 5636/3	1700	1700	1700	1700	1700	Maximum
Bendtsen Roughness ml/min	ISO 8791/2	180	120	100	100	50	+/-40 (75) +/-30 (80,90,100,120)
Moisture %	ISO 287	3,9	3,9	3,9	4,4	4,4	+0,6 / -0,4 (75, 80, 90) +/-0,5 (100,120)

Additional Information

Archival life over 200 years ISO 9706:1994

Elemental Chlorine Free (ECF)

Product	Navigator
Company	Soporcel - Sociedade Portuguesa de Papel, S.A.
Site	Figueira da Foz

Information gathered from January 2004 to December 2004

Environmental product declaration for paper

Environmental Management

Certified environmental management system (at the mill since) ISO 14001, Feb.2001

Environmental aspects of wood procurement 100% of the wood consumption (eucalyptus) originates from plantations established on set aside land for agriculture or unoccupied land. The logging takes place in accordance with the national laws. Working towards PEFC forest certification in company's own forests.

Environmental parameters

The figures are based on methods and procedures of measurement approved by the local (or national) environmental regulators at the production site.

The figures include:

- (1) Paper production
- (2) Integrated production of pulp and paper

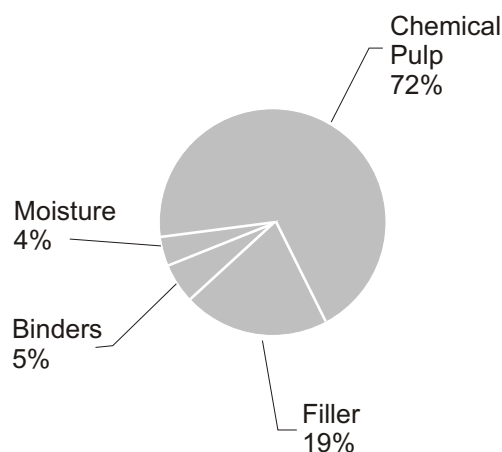
Water (1)	COD	5	kg/t
	AOX	ND	kg/t
	N_{Tot}	0,03	kg/t
	P_{Tot}	0,03	kg/t

Air (1)	SO₂	0,10	kg/t
	NO_x	0,04	kg/t
	CO₂ (fossil)	41,6	kg/t

Solid waste landfilled (2)	27	%
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Purchased electricity consumption (2)		
/ tonne of final product	525	kWh/t

Product composition



More information

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Soporcel hereby declares that all papers produced at Soporcel Paper Mill complies the ISO 9706:1994 requirements.

Properties	ISO 9706 Requirements		Soporcel Papers (Typical Values) *	
Grammage, g/m ²	60	>70	60	80
Tearing Resistance, mN	290	> 350	MD: 350 - 470 CD: 380 - 500	MD: 590 - 600 CD: 650 - 690
Alkali Reserve, mol/kg	> 0,4		4	
Resistance to oxidation	< 5		< 3	
pH value of aqueous extract	7,5 to 10,		9,8	

* All values are obtained in Laboratory Accredited by ISO/IEC 17025.

Quality, Environment & Security Manager

Julieta Sansana

