

# TECHNICAL SPECIFICATIONS

## PaperWise Natural 3-layer board

### Environmentally Friendly & Socially Responsible Paper Made from Agricultural Waste – 100% Tree-Free

PaperWise Natural is an uncoated, light brown 3-layer board resistant to moisture. It can be used for printing, packaging and office applications. Certified for direct food contact, PPWR, recycling, and home and industrial composting.

Globally, only 20% of crops (rice, grain, corn, sugarcane) are used for food. The remaining 80% consists of stems and leaves – agricultural waste. Today, most of this agricultural waste is burned, contributing to unnecessary emissions.

With PaperWise, customers upcycle agricultural waste, help reducing deforestation, lower their carbon footprint, and contribute to a circular economy. Make a positive environmental and social impact, be Wise With Waste.

NO.	PROPERTIES	METHOD	UNIT	PaperWise Natural cupstock (Tree-Free)			
				160	320	340	350
1	Nominal GSM range	ISO 536	GSM	160	320	340	350
2	Substance Tolerance		%	+/- 4			
3	Caliper/Thickness	ISO 534	micron	213	410	436	455
4	Substance Tolerance		%	+/- 4			
5	Bulk		cc/g	1,33	1,28	1,28	1,3
6	Machine Width (parent reel)		mm	1850 - 1880 Maximum			
7	Core options		inch	3", 6"			
8	OD (Outer Diameter reels)		mm	Ø1000 - Ø1250			
9	Tolerance OD		mm	+/- 50			
10	Tolerance reel width		mm	+/- 5			
11	Tolerance sheet dimension	length	mm	+/- 5			
		width	mm	+/- 5			
12	Internal Bond Strength (ply bond)	Tappi 833 pm 94	J/m <sup>2</sup>	419	350	336	313
13	Surface smoothness top	ISO 8791-2	Sheffield	470	728	863	944
14	Surface smoothness bottom	ISO 8791-2	Sheffield	660	1179	1210	1248
15	Edge Wicking		kg/m <sup>2</sup>	0,73	0,6	0,65	0,67
16	Stifness Taber 15° MD ±15%	ISO 2493	mN	48	347	354	436
17	Stifness Taber 15° CD ±15%	ISO 2493	mN	23	160	171	219
18	ISO Brightness	ISO 2470-1	%	45,9	48	45	45,7
19	Cobb <sub>60</sub> (Top)	Tappi 441	g/m <sup>2</sup>	21,5	22,7	21,1	21,5
20	Cobb <sub>60</sub> (Bottom)			22,3	23,3	23,3	22,8
21	Moisture ±5%		%	5,5	7,3	7,4	7,5
22	Brightness	ISO 2470-1	%	45,9	48	45	45,7
23	Opacity		%	98,6	98,6	96,9	98,5
24	Whiteness			NATURAL LIGHT BROWN UNCOATED			
25	Preferred printed side			BOTH SIDES POSSIBLE			
26	Cellulose - alternative fibers		%	100			
27	Cellulose - trees / recycled		%	0			
28	Food Approved EC1935/2004 + PPWR	ISEGA		✓			
30	Home Compostable	Din Certco		✓			
31	CO <sub>2</sub> -neutral production, transport by compensation			✓			
32	RECYCLABLE with regular paper	P.T.S.		✓			

PaperWise is suitable for offset- flexo-, digital- & rotogravure printing

Reels and sheets with customer specific dimensions can be produced with minimum of 10 Tons, where the order needs to be tuned to the optimum use of the machine width of 265-270cm. Transport container only takes place from 24 Tons.