

# TECHNICAL SPECIFICATIONS

## PaperWise Natural Single layer paper & board

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

PaperWise Natural is uncoated, light brown single layer paper & 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 (Tree-Free)			
				160	270	320	350
1	Nominal GSM range	ISO 536	GSM	160	270	320	350
2	Substance Tolerance		%	+/- 3			
3	Caliper/Thickness	ISO 534	micron	210	340	398	440
4	Substance Tolerance		%	+/- 4			
5	Bulk		cc/g	1,22	1,24	1,24	1,26
6	Machine width (parent reel)		mm	2600 - 2700 Maximum			
7	Core options		inch	3", 6"			
8	OD (Outer Diameter reels)		mm	Ø1100 - Ø1250			
9	Tolerance OD		mm	+/- 50			
10	Tolerance reel width		mm	+/- 5			
11	Tolerance sheet dimension	length	mm	+/- 5			
		width	mm	+/- 5			
12	Surface smoothness top	ISO 8791-2	ml/min	12	7	6	8
13	Surface smoothness bottom	ISO 8791-2	ml/min	6	4	4	4
14	Edge Wicking		g/mm.m				
15	Stiffness Taber 15° MD ±15%	ISO 2493	mN	1,35	5,72	9,89	9,48
16	Stiffness Taber 15° CD ±15%	ISO 2493	mN	0,79	2,99	5,12	4,79
17	ISO Brightness	ISO 2470-1	%	57 ±2			
18	Cobb <sub>60</sub> (Top)	ISO 535	g/m <sup>2</sup>	32	32	30	31
19	Cobb <sub>60</sub> (Bottom)	ISO 535	g/m <sup>2</sup>	34	33	33	32
20	Break tensile strength		N.m/g	52,5	53	51,3	41,9
21	Moisture ±5%		%	7,5	7,5	7,5	7,5
22	Opacity		%	94	95	96	96
23	Gloss 75°	ISO 8254	%	≥40			
24	Colour			NATURAL LIGHT BROWN UNCOATED			
25	Preferred printed side			Top but both sides can be printed			
26	Cellulose - alternative fibers		%	100			
27	Cellulose - trees / recycled		%	0			
28	Food contact 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.