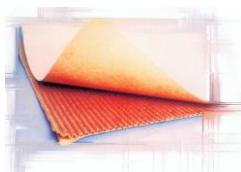
	PAN-ESP-LAB-0001 – Klabin Liner Board - KlaLiner White PM14	Version: 12 Date: Apr/2018
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**Product Description:** Paper furnish consists of virgin fibers obtained from the kraft and semi-chemical process. The bottom ply and the middle ply are composed of unbleached short fiber and recovered paper from the process (broke, waste paper and return of machine) and the top ply of bleached short fiber.

Property	Unit	Method	Tolerance	150	155	160	175	185	200	250
Moisture	%	On-line	-1,0/+1,5	7,0						
Gurley	s/dL	T-460	typical	50						
			minimum	20						
Cobb test - TS (120 s)	gH <sub>2</sub> O/m <sup>2</sup>	T-441	minimum	25						
			maximum	45						
Cobb test - BS (120 s)	gH <sub>2</sub> O/m <sup>2</sup>	T-441	minimum	30						
			maximum	55						
Ply Bond	J/m <sup>2</sup>	T-569	typical	300						
			minimum	220						
Brightness	% ISO	T-452	typical	78						
			minimum	75						
Mullen	kPa	T-807	typical	499	510	544	624	661	685	761
RCT CD	kN/m	T-822	typical	1,46	1,54	1,63	2,00	2,16	2,48	3,20
SCT CD	kN/m	T-826	typical	3,43	3,51	3,79	3,82	4,28	4,55	4,83

- Lab conditions: 23 ± 1°C and 50 ± 2% R.H.
- Tolerances based upon 95% confidence limits.
- The specifications are valid for PM 14
- Maximum basis weight tolerance: 4%.

**Environment:** Klabin's forestry and industrial operations are based on the concept of sustainable development, to preserve the biodiversity and the ecosystem balance in the areas of operation. The company is Forest Stewardship Council / FSC Code: RA-COC-001770, OHSAS18001, ISO 9001 and ISO 14001 certified.