

REGULAR PULP QUALITY	METHODS	RANGES	TARGET
Moisture content, %	ISO 638:08	6.0-9.0	<b>8 ± 1.0</b>
Brightness, % ISO	ISO 2470-1:09	≥ 87.0	<b>≥ 88.0</b>
Acetone extractives, %	ISO 14453:14	≤ 0.30	<b>≤ 0.20</b>
PH range	ISO 6588-1:12	5.0-7.5	<b>6.0 ± 0.5</b>
Average fiber length (Lw), mm	ISO 16065-2	2.5-3.1	<b>2.8</b>
Grammage (OD), g/m <sup>2</sup>	ISO 536:12	690-760	<b>710 ± 20</b>
Density (OD), g/cm <sup>3</sup>	ISO 534:11	0.50-0.62	<b>0.57±0.03</b>
Burst resistance (Mullen), kPa	ISO 2759:14	800-1300	<b>1000±100</b>
Thickness/caliper, mm	ISO 534:11	1.15-1.35	<b>1.25±0.05</b>

FLUFF PULP PERFORMANCE	PROPERTIES	RANGES	TARGET
Defiberization Energy, kWh/mt	Hammer mill	< 40	<b>&lt; 32</b>
Fiberization Accepts, %	Hammer mill	> 87	<b>&gt; 90</b>
Knots, %	Hammer mill	< 8	<b>&lt; 5</b>
Absorption Capacity, gH <sub>2</sub> O/g	SCAN C33:80	> 9	<b>&gt; 10</b>
Absorption time, s/3g	SCAN C33:80	< 4.0	<b>&lt; 2.7</b>

**ROLL DIAMETER:**

1200-1480 ±10mm

**REEL WIDTH:**

250-500 ±10mm

**CORE:**

76 mm ±2mm

PineFluff will be delivered in reels.

\*Different sizes require commercial negotiation.

BLEACHED KRAFT SOFTWOOD PULP - ECF GRADE

**TYPICAL FEATURES:**

PineFluff is an ECF-grade bleached softwood fluff pulp, developed for absorbent products such as baby and adult diapers, incontinence products, female pads, daily pads, hospital products, absorbent mats, and other specialties. Klabin has the largest fluff pulp production capacity in the Southern Hemisphere. Pinus Taeda is 100% from forests planted in very rich soil and in a favorable climate, located in the southern region of Brazil, resulting in one of the highest yields of softwood pulp per hectare in the world. Pinus wood has the following features that enhance the properties of the final product:

- Homogeneity in absorption capacity and time
  - Panel integrity and stability
  - Rewet stability profile
  - Low defiberization energy