



CALIMA[®]
CUPBOARD

100%
SUGARCANE
PAPER



Great coffee deserves the best handling.

Papercups made with **CALIMA**[®] sugarcane paper.



colonia2go[®]



CALIMA[®] cupboard is a compostable and unbleached paperboard made from **100% sugarcane bagasse** and a PLA coating, **ecovio[®]** from BASF. Bagasse is a byproduct of the sugar production and is a virgin fiber - making **CALIMA[®]** cupboard a perfect sustainable food grade solution.

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CUPBOARD





CALIMA[®] sugarcane cup board comes in four different basis weights + ecovio[®] and is made with unbleached sugarcane paper from 100% bagasse pulp.



Characteristics base board	Units	Test Method by TAPPI	PBSC200 targets	PBSC226 targets	PBSC263 targets	PBSC295 targets
Grammage	g/m ²	T410	200.00	226.00	263.00	295.00
Thickness	µm	T411	305.00	356.00	406.00	457.00
Cobb size FS	g/100cm ²	T441	50.00	50.00	50.00	50.00
Moisture	%	T412	7.00	7.00	7.00	7.00
Smoothness WS	Sheffield	T538	250.00	250.00	250.00	250.00
Smoothness FS	Sheffield	T538	250.00	250.00	250.00	250.00
Stiffness CD	g.cm	T489	35.00	80.00	65.00	70.00
Stiffness MD	g.cm	T489	25.00	45.00	90.00	100.00
Brightness FS	%	T452	40.00	40.00	40.00	40.00
ecovio [®] by BASF	g/m ²		24.00	24.00	24.00	24.00
Finished board						
Grammage	g/m ²		224.00	250.00	287.00	319.00
Thickness	µm		325.00	376.00	426.00	477.00

ecovio[®] meets the following international standards for industrial composting: EN 13432, ASTM 6400, AS 4636.

CALIMA[®] sugarcane cup board is certified for direct food contact by ISEGA - Certificate of Compliance 40524 U 15





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... and in the center of it all is the coating with ecovio[®], a specially designed biopolymer from BASF. The combination of the sugarcane paper and the ecovio[®] coating allows the papercup to compost in a short period of time.

In a recent university study in Vienna, Austria, the compostability was proven in a home composting environment to decompose in less than 5 weeks.



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In a recent study at a university in Vienna, CALIMA[®] was tested for its compostability and exceeded all expectations. CALIMA[®] tested best among all its competitors (other PLA coated cupstock). The table shows the four competing cupstock materials and the results:

Table 1 (top) shows the total weight of 3 specimens (10x10 cm) in grams reducing over the test period of 6 weeks.

Table 2 (bottom) shows the residue in %.

- Probe 1 Bio Plus Earth #1 brown kraftboard + PLA
300 g/m² (WestRock, USA)
- Probe 2 Colonia2Go's CALIMA[®] cup stock 287 g/m²
- Probe 3 SINARKRAFT HB 250 g/m² (Indah Kiat, India)
- Probe 4 Carta Solida MB 250 g/m² (Metsä Board)

CALIMA[®] is proven to be compostable, ... and more:
Even home compostable!

Gesamtgewicht von je 3 Proben 10 x 10 cm in Gramm				
Wochen	Probe 1	Probe 2	Probe 3	Probe 4
0	9,2	8,4	8,7	7,2
1	7,8	6,9	6,4	4,8
2	5,5	4,1	4,7	3,7
3	4,9	2,7	3,7	2,8
4	4,4	0,7	3,3	2,2
5	4,2	0,03	2,9	1,9
6	3,8		2,5	0,8

Tab. 7: 6 Wochen Auswertung in Gramm

Rückstand des Materials im Gitter in %				
Woche	Probe 1	Probe 2	Probe 3	Probe 4
0	100	100	100	100
1	84,8	82,1	73,6	66,7
2	59,8	48,8	54,0	51,4
3	53,3	32,1	42,5	38,9
4	47,8	8,3	37,9	30,6
5	45,7	0,4	33,3	26,4
6	41,3		28,7	11,1

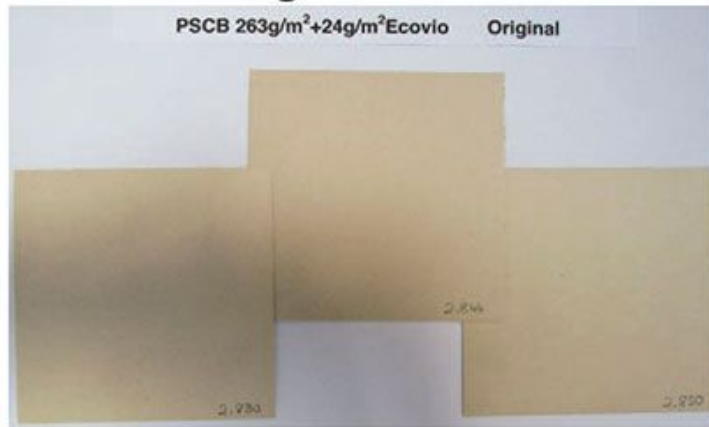
Tab. 8: 6 Wochen Auswertung des Gitterrückstandes

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Week 0 - Original



After week 1



After week 2



After week 3



After week 4



After week 5



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CALIMA[®] is a cupstock material to manufacture compostable cups.



It uses Earth Pact Paper because the natural color differentiates it.

It has been developed for hot beverages since coffee will be a target market.

Recently the French government announced that the disposable cups have to be compostable from 2020 on.



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