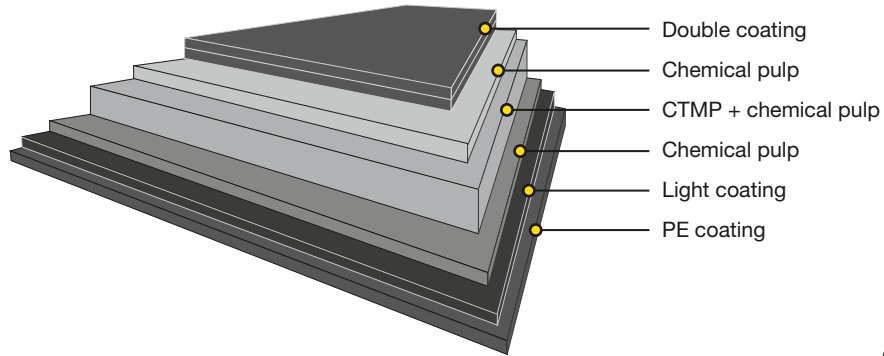


## Fully coated CTMP board with coated reverse

Performa Alto PE is a polyethylene-coated GC1 board. The board has a three-layer fibre construction, and CTMP (chemi-thermomechanical pulp + chemical pulp) in the middle layer. It is double-pigment-coated on the top side and the reverse side is white with transparent PE.



Issued: 12.2017  
Cancels: 09.2013

### Technical specification

Property / Unit	Tolerance	200+15	220+15	240+15	260+15	280+15	300+15	325+15	350+15	Standards
<b>Polymer coated board:</b>										
Grammage, g/m <sup>2</sup>		215	235	255	275	295	315	340	365	ISO 536
PE Reverse, g/m <sup>2</sup>		15	15	15	15	15	15	15	15	Mill method
Thickness, µm		273	303	343	378	413	443	483	528	ISO 534
<b>Baseboard:</b>										
Grammage, g/m <sup>2</sup>	±4%	200	220	240	260	280	300	325	350	ISO 536
Thickness, µm	±5%	260	290	330	365	400	430	470	515	ISO 534
Bending resistance L&W 15° MD, mN	-15%	121	182	241	316	400	484	592	699	ISO 2493
Bending resistance L&W 15° CD, mN	-15%	60	86	112	144	181	221	279	343	
Bending moment Taber 15° MD, mNm	-15%	6.0	8.8	11.6	15.3	19.3	23.4	28.6	33.8	
Bending moment Taber 15° CD, mNm	-15%	2.9	4.2	5.4	6.9	8.8	10.7	13.5	16.6	
Bending stiffness DIN 5° MD, mNm	-15%	10.3	15.5	20.5	26.9	34.0	41.1	50.3	59.4	
Bending stiffness DIN 5° CD, mNm	-15%	5.1	7.3	9.5	12.2	15.4	18.8	23.7	29.2	
Moisture, %		6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	ISO 287
ISO Brightness C/2°, %, Top	min. 88	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5	ISO 2470-1
ISO Brightness C/2°, %, Reverse	min. 85	88.5	88.5	88.5	88.5	88.5	88.5	88.5	88.5	
Brightness D65/10°, %, Top		98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	ISO 2470-2
CIE Whiteness D65/10°, Top		118	118	118	118	118	118	118	118	ISO 11475
CIE Whiteness D65/10°, Reverse		108	108	108	108	108	108	108	108	
L*, Top		97	97	97	97	97	97	97	97	ISO 5631-2
a*, Top		2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	
b*, Top		-6.3	-6.3	-6.3	-6.3	-6.3	-6.3	-6.3	-6.3	
Surface Smoothness, PPS 10, µm, Top	max. 1.7	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	ISO 8791-4
Surface Smoothness, PPS 10, µm, Reverse		4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	
Surface Smoothness, Bendtsen, ml/min, Top		30	30	30	30	30	30	30	30	ISO 8791-2
Gloss 75, %		45	45	45	45	45	45	45	45	ISO 8254-1
Scott Bond, J/m <sup>2</sup>	min.120	200	200	200	200	200	200	200	200	TAPPI 569
Robinson chocolate test		<1 for one year storage in reels/pallets								EN 1230-2

All properties according to Imatra Mill measurements from board machine production.

Laboratory test climate 23°C/50% RH (According to ISO 187).

Tolerances based upon 95% confidence limits, apply to delivered reel/pallet average.

Bending moment Taber 15° and Bending resistance L&W 15° are binding, Bending stiffness DIN 5° are indicative.

Bending moment Taber 15° calculated from Bending resistance L&W 15°.



# Performa Alto™ PE

Fully coated CTMP board with coated reverse

## Certificates

Quality management ISO 9001  
Environmental management ISO 14001  
Product safety ISO 22000  
Health and safety OHSAS 18001  
Energy management ISO 50001



FSC and PEFC certified board available upon request.



Paperboard is recyclable

## Key characteristics and main enduses

Performa Alto PE provides excellent value, runnability and performance in applications that require protection against humidity. It is a high-quality coated board designed to guarantee impressive graphics and performance in tough converting processes. Performa Alto PE is typically used for frozen and chilled food products. It features a blade-coated top side that gives excellent print results. Thanks in part to chemical pulp in the middle layer, the board offers excellent strength and converting properties.

## Printing and finishing techniques

The product can be used with different printing techniques such as offset, flexo and rotogravure. The product works very well with different finishing techniques, such as embossing, hot foil stamping and others. It is suitable for laser coding and ink jet marking. Certificates according to PTS-DF 105/2013 and PTS-DF 103/2011 are available upon request.

## Storage recommendations

For optimal printing results, the moisture proof wrapping should not be removed until the board has reached the temperature of the press room.

Pallet/Reel Weight (kg)	Difference in temperature between board and press room (press room temp. approx. 20°C)		
	10°C	20°C	30°C
400 kg	2 days	2 days	3 days
800 kg	2 days	3 days	4 days
1200 kg	2 days	4 days	5 days

The product properties, according to the specifications, are guaranteed for 12 months after the production date. In order to ensure product safety, the product must be well wrapped and stored in its original cover indoors, sheltered from rain and snow. The recommended storage conditions are 50-55% relative humidity and 20-23°C.

For the Corona treatment, we recommend using the board within 12 months of the production date; after this period, the treatment level should be tested before printing or gluing.

