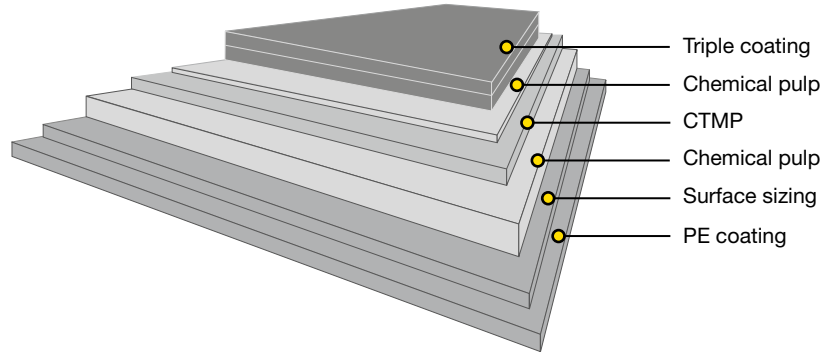


# Performa Bright™ PE

Fully coated CTMP board with bright reverse

Performa Bright PE is a polyethylene-coated GC2 board. The board has a three-layer fibre construction and CTMP (chemi-thermomechanical pulp) in the middle layer. It is triple-pigment-coated on the top side, and the reverse side is white with transparent PE.



Issued: 12.2017  
Cancels: 11.2016

## Technical specification

Property / Unit	Tolerance	225+15	235+15	250+15	260+15	270+15	285+15	295+15	320+15	355+15	Standards
<b>Polymer coated board:</b>											
Grammage, g/m <sup>2</sup>		240	250	265	275	285	300	310	335	370	ISO 536
PE reverse, g/m <sup>2</sup>		15	15	15	15	15	15	15	15	15	Mill method
Thickness, µm		365	395	430	445	465	500	520	575	640	ISO 534
<b>Baseboard:</b>											
Grammage, g/m <sup>2</sup>	±4%	225	235	250	260	270	285	295	320	355	ISO 536
Thickness, µm	±5%	350	380	415	430	450	485	505	560	625	ISO 534
Bending resistance L&W 15° MD, mN	-15%	260	310	385	435	480	565	615	750	915	ISO 2493
Bending resistance L&W 15° CD, mN	-15%	105	120	160	170	195	230	250	305	380	
Bending moment Taber 15° MD, mNm	-15%	12.6	15.0	18.6	21.0	23.2	27.3	29.7	36.2	44.2	
Bending moment Taber 15° CD, mNm	-15%	5.1	5.8	7.7	8.2	9.4	11.1	12.1	14.7	18.4	
Bending stiffness DIN 5° MD, mNm	-15%	21.3	27.7	36.3	40.1	45.7	54.0	59.5	73.4	90	
Bending stiffness DIN 5° CD, mNm	-15%	8.5	11.1	14.5	16.0	18.3	21.6	23.8	29.4	36.1	
Moisture, %	±1	7.9	7.9	7.9	8.0	8.0	8.0	8.2	8.5	9.0	ISO 287
ISO Brightness C/2°, %, Top	min. 87	90	90	90	90	90	90	90	90	90	ISO 2470-1
ISO Brightness C/2°, %, Reverse		82	82	82	82	82	82	82	82	82	
Brightness D65/10°, %, Top		97	97	97	97	97	97	97	97	97	ISO 2470-2
CIE Whiteness D65/10°, Top		120	120	120	120	120	120	120	120	120	ISO 11475
CIE Whiteness D65/10°, Reverse		95	95	95	95	95	95	95	95	95	
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	1.0	ISO 8791-4
Gloss 75°, %		45	45	45	45	45	45	45	45	45	ISO 8254-1
Scott Bond, J/m <sup>2</sup>	min. 100	145	145	145	145	145	145	145	145	145	TAPPI 569
Edge wicking*, g/mm.m	max. 1.0	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	
Cobb 60, g/m <sup>2</sup> , Top	max. 60	30	30	30	30	30	30	30	30	30	ISO 535
Robinson chocolate test		max 0.5 for one year storage in reels/pallets									EN1230-2

\*) For hardsized

All properties according to Fors 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°.

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## Certificates

Quality management ISO 9001  
 Environmental management ISO 14001  
 Product safety FSSC 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 Bright PE provides excellent value, runnability and performance in applications that require protection against humidity. Performa Bright PE is typically used for chocolate and confectionery, and frozen and chilled food products. The white reverse side, combined with excellent top-side printability and yield, makes it attractive also for premium brands.

## Printing and finishing techniques

The product can be used for different printing techniques such as offset-, flexo-, rotogravure- and digital printing. Regarding digital printing the product is suitable for several different sheet- or webfed presses. Inkjet, dry- or liquid toner technology can be used, although in some cases, pretreatment of substrate might be required. The most recent status of certificates can be checked from the press manufacturer's website or from local Stora Enso representatives. It is important to check the limitations of the equipment, particularly because of the exceptional difference in thickness and stiffness of board compared with paper for the same grammages. When running thicker substrates, optimal grain direction should be checked according to the press manufacturer's recommendations.

Essentially all of the same finishing processes apply for digitally printed works as for offset printed. Since a wide variety of digital printing equipment is available in the market, it is important that a new commercial print job is always preceded by a trial run including all required printing and converting process phases.

The product works very well for 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.

