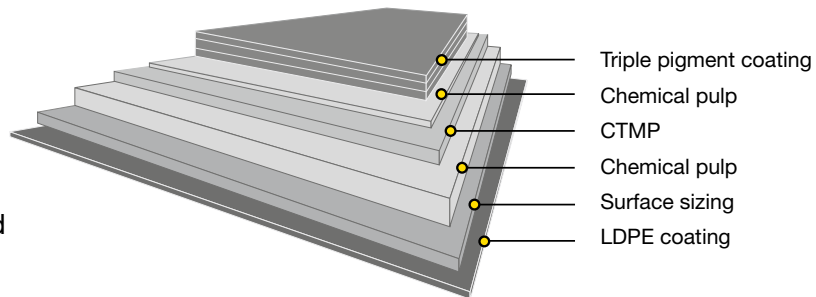


Fully coated CTMP board with white uncoated reverse, FiberLight Tec™

Performa Light is a polyethylene-coated GC2 board. The board has a three-layer fibre construction and CTMP (chemi-thermomechanical pulp) in the middle layer, produced with patented FiberLight Tec™ production technology. It is triple-pigment-coated on the top side, and the reverse is white with transparent LDPE. Performa Light PE is also available hard-sized (HS).



Issued: 11.2023
Cancels: 10.2021

Technical specification

Property / Unit	Tolerance	220+15	240+15	250+15	260+15	275+15	285+15	305+15	320+15	340+15*	Standard
Polymer coated board:											
Grammage, g/m ²		235	255	265	275	290	300	320	335	355	ISO 536
LDPE reverse, g/m ²		15	15	15	15	15	15	15	15	15	Mill method
Thickness, µm		360	415	435	450	480	500	530	560	615	ISO 534
Baseboard:											
Grammage, g/m ²	±4%	220	240	250	260	275	285	305	320	340	ISO 536
Thickness, µm	±5%	345	400	420	435	465	485	515	545	585	ISO 534
Bending resistance L&W 15° MD, mN	-15%	264	344	398	439	522	584	687	769	876	ISO 2493
Bending resistance L&W 15° CD, mN	-15%	120	156	181	200	237	266	316	347	404	
Bending moment Taber 15° MD, mNm	-15%	12.8	16.6	19.2	21.2	25.2	28.2	33.2	37.1	42.3	
Bending moment Taber 15° CD, mNm	-15%	5.8	7.5	8.7	9.7	11.4	12.8	15.3	16.8	19.5	
Bending stiffness DIN 5° MD, mNm	-15%	23.3	30.8	35.8	39.6	47.4	53.2	65.3	73.6	83.4	
Bending stiffness DIN 5° CD, mNm	-15%	11.0	14.5	16.9	18.8	22.4	25.2	29.7	33.2	38.2	
Moisture, %	±1	7.2	7.9	8.0	8.1	8.2	8.3	8.5	8.7	8.9	ISO 287
ISO Brightness C/2°, %, Top	min. 88.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5	ISO 2470-1
ISO Brightness C/2°, %, Reverse		84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0	
Brightness D65/10°, %, Top		98	98	98	98	98	98	98	98	98	ISO 2470-2
CIE Whiteness D65/10°, Top		122	122	122	122	122	122	122	122	122	ISO 11475
CIE Whiteness D65/10°, Reverse		100	100	100	100	100	100	100	100	100	
Surface Smoothness, PPS 10, µm, Top	max. 1.5	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	ISO 8791-4
Gloss 75°, %		40	40	40	40	40	40	40	40	40	ISO 8254-1
Scott Bond, J/m ²	min. 110	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 ² , Top	max. 60	30	30	30	30	30	30	30	30	30	ISO 535
Cobb 60, g/m ² , Reverse		50	50	50	50	50	50	50	50	50	
Robinson chocolate test		< 1 for one year storage in reels/pallet									EN1230-2

*) Preliminary values
**) 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 moment Taber 15° calculated from Bending resistance L&W 15°.



Performa Light™ PE

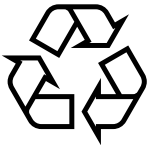
Fully coated CTMP board with white uncoated reverse, FiberLight Tec™

Certificates

- Quality management ISO 9001
- Environmental management ISO 14001
- Product safety FSSC 22000
- Occupational health and safety ISO 45001
- Energy management ISO 50001



FSC and PEFC certified board available upon request.



Paperboard can be recycled

Key characteristics and main enduses

Performa Light is produced with patented FiberLight Tec™ including microfibrillated cellulose in the structure. Performa Light PE provides high bulk and stiffness, high brightness, excellent smoothness and great visual appearance for applications that require protection against humidity. The board offers a superior whiteness on both the top and reverse side. Thanks to a triple-pigment-coated top side, Performa Light PE gives an excellent print result. Performa Light PE is ideal for folding cartons for chocolate and confectionary, cosmetics and beauty care, healthcare and other premium packaging. The superior quality of Performa Light PE makes it attractive for premium brands.

Printing and finishing techniques

The product can be used with different printing techniques such as offset, flexo, rotogravure and digital printing. In digital printing, the product is suitable for several different sheet- or web-fed presses. Inkjet, dry or liquid toner technology can be used, although in some cases, pretreatment of the substrate might be required. The latest certification status can be verified on the press manufacturer's website or with local Stora Enso representatives. It is important to check the limitations of the equipment, particularly because of the exceptional difference in the thickness and stiffness of board compared with paper in the same grammages. When running thicker substrates, the press manufacturer's recommendations should be referred to for optimal grain direction. Essentially all of the same finishing processes apply to both digitally printed and offset printed work. 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 with different finishing techniques, such as embossing, hot foil stamping and others. It is suitable for laser coding. Certificate according to PTS-DF 105/2019 is 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.