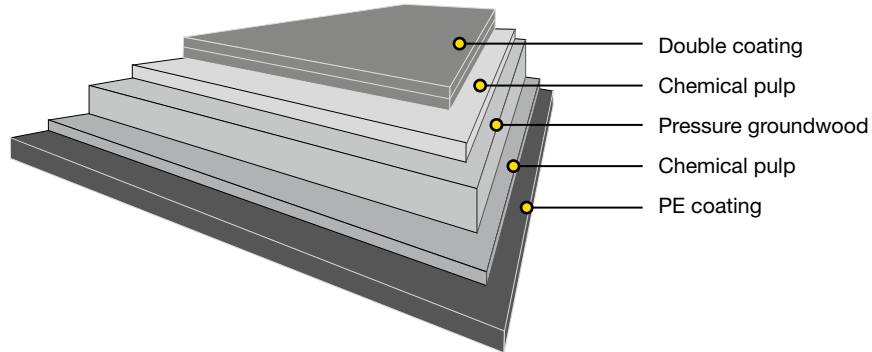


Fully coated folding boxboard

Tambrite PE is a polyethylene-coated GC2 board. The board has chemical pulp layers on both sides and pressure groundwood in the middle layer. The top is white and the reverse is cream, coated with transparent PE. Tambrite PE is also available hard-sized (HS).



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Technical specification

Property/Unit	Tolerance	200+20	210+20	220+20	230+20	240+20	250+20	260+20	270+20	285+20	310+20	335+20	Standards
Polymer coated board:													
Grammage, g/m ²		220	230	240	250	260	270	280	290	305	330	355	ISO 536
Polymer reverse, g/m ²		20	20	20	20	20	20	20	20	20	20	20	Mill method
Thickness, µm		370	395	420	440	460	480	500	520	560	620	670	ISO 534
Baseboard:													
Grammage, g/m ²	±4%	200	210	220	230	240	250	260	270	285	310	335	ISO 536
Thickness, µm	±4% or max. ±20µm	350	375	400	420	440	460	480	500	540	600	650	ISO 534
Bending moment Taber 15° MD, mNm	-10%	9.0	10.7	12.4	14.3	16.2	18.1	20.5	23.0	27.6	35.5	43.7	ISO 2493
Bending moment Taber 15° CD, mNm	-10%	5.0	5.9	6.8	7.8	8.8	9.8	11.0	12.3	14.6	18.5	22.4	
Bending resistance L&W 15° MD, mN	-10%	186	221	257	296	335	375	424	476	571	735	905	
Bending resistance L&W 15° CD, mN	-10%	104	122	141	161	182	203	228	255	302	383	464	
Bending stiffness DIN 5° MD, mNm	-10%	18.0	21.3	24.7	28.5	32.3	36.1	40.9	45.9	55.1	70.8	87.2	DIN 53121
Bending stiffness DIN 5° CD, mNm	-10%	10.0	11.8	13.6	15.6	17.6	19.6	21.9	24.5	29.1	36.9	44.7	
Moisture, %	±1	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.5	8.5	9.0	ISO 287
ISO Brightness C/2°, %, Top	min. 84	86	86	86	86	86	86	86	86	86	86	86	ISO 2470-1
Surface Smoothness, PPS 10, µm, Top	max. 1.5	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	ISO 8791-4
Scott Bond, J/m ²	min. 100	130	130	130	130	130	130	130	130	130	130	130	TAPPI 569
Edge wicking*, g/mm.m		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<2.0	
Robinson chocolate test		max. 0.5 for one year storage in reels/pallets											EN 1230-2

*) For hard-sized

All properties according to Ingerois and Forshaga Mills' 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.

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 is recyclable

Key characteristics and main enduses

Tambrite PE provides excellent value, runnability and performance in applications that require protection against humidity. The continuous development of Tambrite has resulted in excellent stiffness and bulk attributes, and the board has a good visual appearance and performs well in printing and converting processes, including digital printing, laser and inkjet coding. Tambrite PE helps optimize package performance, ensures high visual quality and saves materials, thus helping to reduce food waste. In food packaging, Tambrite is the best choice when the package's tactile strength is to communicate quality.

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 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 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.