# Tambrite™

Fully coated folding boxboard with cream uncoated reverse

Tambrite is a fully coated GC2 board. The board consists of three fibre layers, with chemical pulp layers on both sides and pressure groundwood in the middle layer. The top is white and the reverse is cream. Tambrite is also available hard-sized (HS).

- Double pigment coating
- Chemical pulp
- Pressure groundwood
- Chemical pulp
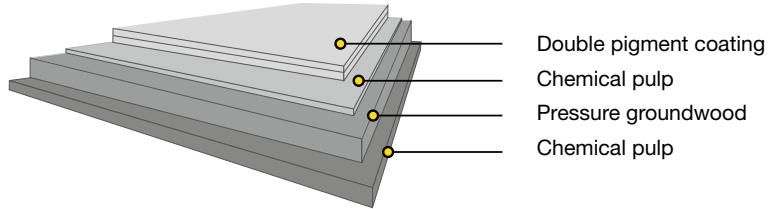
Issued: 12.2024
Cancels: 11.2023

Technical specification

Specification article		TB375	TB400	TB420	TB440	TB460	TB480	TB500	TB540	TB600	TB650	
Property/Unit	Tolerance											Standard
Thickness, µm	±4% or max. ±20µm	375	400	420	440	460	480	500	540	600	650	ISO 534
Grammage, g/m²	±4%	200	210	220	230	240	250	260	275	300	325	ISO 536
Bending resistance L&W 15º MD, mN	-15%	221	257	296	335	375	424	476	571	735	905	ISO 2493-1
Bending resistance L&W 15º CD, mN	-15%	122	141	161	182	203	228	255	302	383	464	
Bending moment Taber 15° MD, mNm	-15%	10.7	12.4	14.3	16.2	18.1	20.5	23.0	27.6	35.5	43.7	
Bending moment Taber 15° CD, mNm	-15%	5.9	6.8	7.8	8.8	9.8	11.0	12.3	14.6	18.5	22.4	
Bending stiffness DIN 5° MD, mNm	-15%	21.3	24.7	28.5	32.2	36.1	40.9	45.9	55.1	70.8	87.2	
Bending stiffness DIN 5° CD, mNm	-15%	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	8.5	8.5	9.0	ISO 287
ISO Brightness C/2°, %, Top	min. 84	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	ISO 8791-4
Scott Bond, J/m²	min. 100	130	130	130	130	130	130	130	130	130	130	TAPPI 569
Robinson chocolate test		max. 0.5 for one year storage in reels/pallet										EN 1230-2

All properties according to Ingerois 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 resistance L&W is binding.
Bending moment Taber 15° and Bending stiffness DIN 5° are calculated.

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Certificates

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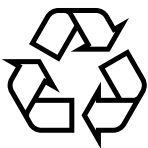Energy management ISO 50001

FSC
www.fsc.org
MIX
Board | Supporting responsible forestry
FSC® C127282

PEFC
PEFC/02-31-247
PEFC Certified
www.pefc.org

FSC and PEFC certified board available upon request.

compostable

For grammages ≤ 250 g/m² industrially compostable according to EN 13432 standard.

Paperboard can be recycled

Key characteristics and main enduses

Tambrite provides excellent value, runnability and performance in its key end-use segments: pharmaceutical packaging, food packaging and chocolate packaging. 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, as well as Braille embossing. 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 105/2019 and PTS-DF 103/2022 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.

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