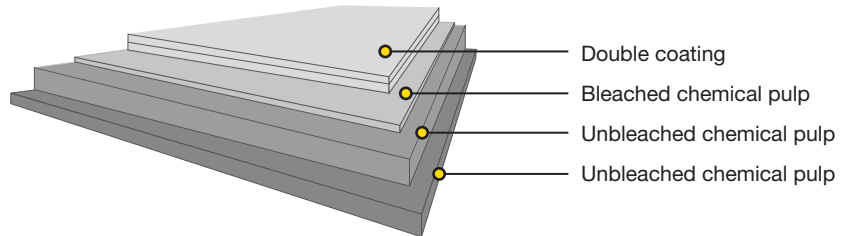


## Multilayer kraft back board

CKB Carrier is a multilayer kraft back board with a bleached chemical pulp layer on the top side and other layers made of unbleached chemical pulp. The board has a double coating on the top side. The top side is white, the reverse side is brown.



Issued: 01.2020  
Cancels: 09.2017

### Technical specification

Property / Unit	Tolerance						Standards
Grammage, g/m <sup>2</sup>	±4 %	270	300	330	360	380	ISO 536
Thickness, µm	±5 %	400	455	510	560	575	ISO 534
Bending moment Taber 15° MD, mNm	-15 %	14.7	21.7	29.5	36.7	41.1	
Bending moment Taber 15° CD, mNm	-15 %	7.1	10.6	13.5	18.4	21.3	
Bending resistance L&W 15° MD, mN	-15 %	305	450	610	760	850	ISO 2493-1
Bending resistance L&W 15° CD, mN	-15 %	147	220	280	380	440	
Bending stiffness DIN 5° MD, mNm	-15 %	25.3	38.3	51.9	64.6	72.3	
Bending stiffness DIN 5° CD, mNm	-15 %	12.5	18.7	23.8	32.3	37.4	
Moisture, %	±1	8.5	8.5	8.5	8.5	8.5	ISO 287
ISO Brightness C/2°, %, Top	min. 78	80	80	80	80	80	ISO 2470-1
Surface Smoothness, PPS 10, µm, Top	max. 1.7*	1.4	1.4	1.4	1.4	1.5	ISO 8791-4
Surface Smoothness, Bendtsen, ml/min, Reverse	max. 1800**	1100	1100	1100	1200	1200	ISO 8791-2
Gloss 75°, %	min. 22	27	27	27	27	27	ISO 8254-1
Scott Bond, J/m <sup>2</sup>	min. 150	250	250	250	250	250	TAPPI 569
Edge wicking, g/mm.m	max. 1.0	0.5	0.5	0.5	0.5	0.5	
Tearing resistance MD, mN	-15 %	5700	6600	7100	7800	8200	TAPPI T414
Tearing resistance CD, mN	-15 %	4000	5000	6100	7300	7500	
Cobb 60, g/m <sup>2</sup> , Top	±10	30	30	30	30	30	ISO 535
Cobb 60, g/m <sup>2</sup> , Reverse	±10	30	30	30	30	30	
Tensile strength MD, kN/m	-18 %***	19	22	25	28	29	ISO 1924-3
Tensile strength CD, kN/m	-18 %	14.5	15.5	16.0	16.5	16.8	

\* Surface Smoothness, PPS 10 upper tolerance limit in CKB Carrier 380gsm is 1,8µm

\*\* Surface Smoothness, Bendtsen Reverse side upper tolerance in CKB Carrier 380gsm is 1500ml/min

\*\*\* Tensile strength MD lower tolerance limit in CKB Carrier 380gsm is -11%

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

Wet tearing resistance is typically 60 % of dry tearing resistance.

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°.

### Certificates

Quality management ISO 9001  
 Environmental management ISO 14001  
 Product safety FSSC 22000  
 Product safety ISO 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

CKB Carrier boasts increased tear resistance, bending stiffness and highly impressive tensile and burst strength. These features provide protection in the most challenging conditions, but the board also offers a smoothness and gloss that let you create a unique visual identity for your brand. CKB Carrier is designed for multipacks – the eye-catching pack is light and strong and easy to buy, carry, open and recycle. The material offers exceptional stiffness and strength, combined with great runnability and printing quality. One of the most important reasons to choose CKB, however, is its proven food safety.

### 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 105/2013 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 indoors, sheltered from rain and snow. The recommended storage conditions are 50-55% relative humidity and 20-23°C.