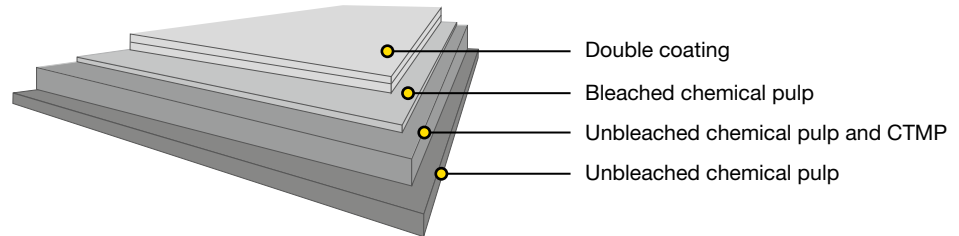


Multilayer kraft back board

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



Issued: 10.2017
Cancels: 08.2015

Technical specification

Property / Unit	Tolerance										Standards
Grammage, g/m ²	±4%	175	195	220	235	255	290	315	350	380	ISO 536
Thickness, µm	±5%	245	300	360	400	435	490	540	600	665	ISO 534
Bending moment Taber 15° MD, mNm	-15%	4.4	7.8	12.0	15.3	20.2	29.5	37.4	46.9	56.4	TAPPI 489
Bending moment Taber 15° CD, mNm	-15%	2.1	3.7	5.7	7.3	9.6	12.8	16.2	20.4	24.5	
Bending resistance L&W 15° MD, mN	-15%	90	160	250	319	416	611	775	971	1168	ISO 2493
Bending resistance L&W 15° CD, mN	-15%	43	76	119	152	198	266	336	422	508	
Bending stiffness DIN 5° MD, mNm		7.6	13.7	21.8	28.4	38.0	55.7	71.4	96.3	108.9	DIN 53121
Bending stiffness DIN 5° CD, mNm		3.6	6.5	10.4	13.5	18.1	24.1	30.7	39.9	47.0	
Moisture, %	±1	7.0	7.0	7.0	7.5	7.5	8.0	8.5	9.0	9.5	ISO 287
ISO Brightness C/2°, %, Top	min. 78	80	80	80	80	80	80	80	80	80	ISO 2470-1
Surface Smoothness, PPS 10, µm, Top	max. 2.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	ISO 8791-4
Surface Smoothness, Bendtsen, ml/min, Reverse	max. 2000	1000	1000	1000	1000	1000	1000	1000	1000	1000	SCAN P 84:02
Gloss 75°, %		35	35	35	35	35	30	30	30	30	ISO 8254-1
Scott Bond, J/m ²	min. 100	175	175	175	175	175	175	175	175	175	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	
Tearing resistance MD, mN	-800	2200	2500	3150	3400	3900	4350	5100	5800	6540	TAPPI 496
Tearing resistance CD, mN	-800	2400	2750	3450	3800	4300	4900	5700	6400	7150	
Cobb 60, g/m ² , Top		30	30	30	30	30	30	30	30	30	ISO 535
Cobb 60, g/m ² , Reverse		30	30	30	30	30	30	30	30	30	
Robinson chocolate test		< 1 for one year stored under normal conditions									EN1230-2
Burst strenght, kPa		630	640								ISO 2759:01

Produced with RaZoR concept

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

Wet tearing resistance is typically 25-30% of dry tearing resistance, except for CKB 350 gsm and CKB 380 gsm where the wet tearing resistance is 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°.

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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

CKB is all about strong character, strong brands and strong messages. It is an ideal packaging material for folding cartons for dry, chilled and frozen food, chocolate, wine and spirits. CKB also makes great multipacks – the eye-catching pack is light and strong and easy to buy, carry, open and recycle. The material's exceptional stiffness and strength, combined with great runnability and printing quality, make CKB a world-class choice for a wide range of applications. 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 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.

