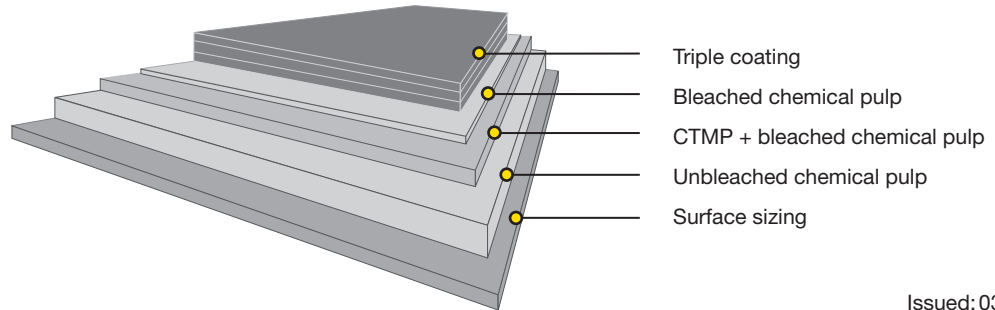


Multilayer kraft back board

CKB Karneoli™ is a triple coated multilayer kraft back board with a bleached chemical pulp layer on the top side, middle layer made of CTMP & bleached chemical pulp and unbleached chemical pulp for reverse layer. The top side is white and the reverse side is brown.



Issued: 03.2023
Cancels: 12.2022

Technical Specification

Property / Unit	Tolerance									Standards
Grammage, g/m ²	+/-4%	200	230	250	270	300	325	360		ISO 536
Thickness, µm	+/-4%	300	350	390	430	485	540	590		ISO 534
Bending stiffness Taber 15° MD, mNm	min -15%	7.0	11.6	15.6	19.8	26.8	34.0	42.6		ISO 2493
Bending stiffness Taber 15° CD, mNm	min -15%	3.7	6.1	8.2	10.4	14.1	17.9	22.4		
Bending resistance L&W 15 MD, mN	min -15%	145	240	324	409	556	703	882		ISO 2493
Bending resistance L&W 15 CD, mN	min -15%	77	126	170	215	292	370	464		
Moisture, %	±1%	7.0	7.0	7.5	7.5	8.0	8.0	8.5		ISO 287 / GB/T 462
ISO Brightness C/2°, Top, %	min 78%	81	81	81	81	81	81	81		ISO 2470
Surface Smoothness, PPS 10, µm	max 2	1.2	1.2	1.2	1.2	1.2	1.2	1.2		ISO 8791-4
Surface Smoothness, Bendtsen, Reverse, ml/min	max. 2000	1500	1500	1500	1500	1500	1500	1500		ISO 8791-2
Scott Bond, J/m ²	≥ 100	175	175	175	175	175	175	175		TAPPI T 569 om
Gloss 75°, Top, %	≥ 30	40	40	40	40	40	40	40		TAPPI T 480 / ISO 8254
EWT, 23°C Water, kg/m ²	≤1.0	0.5	0.5	0.5	0.5	0.5	0.5	0.5		Mill Method
Cobb Water 60s, Top, g/m ²	≤60	30	30	30	30	30	30	30		ISO 535 / GB/T 1540
Cobb Water 60s, Reverse, g/m ²	≤60	35	35	35	35	35	35	35		
Fluorescent substance, wavelength 254nm and 365nm	N/A	Negative								GB 31604.47

All properties according to Beihai 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 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
 Occupational health and safety ISO 45001
 Energy management ISO 50001



The mark of responsible forestry



FSC™ and PEFC™ certified board available upon request.



Paperboard is recyclable

Key characteristics and main enduses

CKB Karneoli™ has been designed to meet consumer preferences for sustainable, renewable and recyclable packaging materials. Made from 100% virgin fibre with higher hygiene standard, CKB Karneoli™ is a safe choice for direct food contact packaging. And considering the good edge wicking performance, CKB Karneoli™ is especially suitable for chilled & frozen packaging. CKB Karneoli™ 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 Karneoli™ a world-class choice for a wide range of applications.

Printing and finishing techniques

CKB Karneoli™ is a high bulky product, customer needs to choose a proper grammage according to the strength and thickness of the packaging. If enduser needs to cut as sheets, the de-curling setting should be especially cared to avoid the cracking defects on the coating side. The product can be used with different printing techniques such as offset, flexo printing. Also, considering the different thickness of the board, it is necessary to adjust the printing/converting pressure and related tollings accordingly. The product works very well with different finishing techniques, such as embossing, hot foil stamping and others.

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.