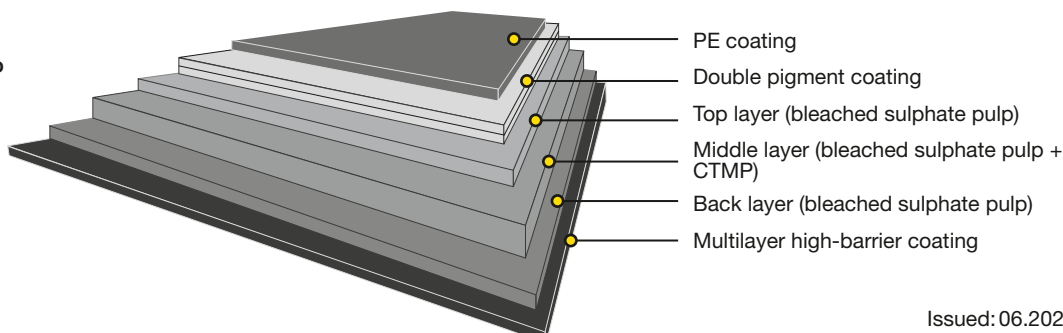


Cupforma Special Barr™

Pigment coated cup board with high barrier and PE on top side

Cupforma Special Barr is a board with a three layer fibre construction including CTMP (chemi-thermomechanical pulp) in the middle layer and a fully coated top side. The board has PE coating on its top and a multilayer high-barrier coating on its reverse side.



Issued: 06.2020
Cancels: 08.2017

Technical specification

Property / Unit	Tolerance	20+195+42EB56	20+210+42EB56	20+230+42EB56	20+255+42EB56	20+270+42EB56	20+295+42EB56	20+320+42EB56	20+350+42EB56	Standards
Polymer coated board:										
Grammage, g/m ²	±7%	271	286	306	331	346	371	396	426	ISO 536
PE topside, g/m ²	±2	20	20	20	20	20	20	20	20	Mill method
PE reverse, g/m ²	±6	56	56	56	56	56	56	56	56	
Thickness, µm	±9%	330	350	390	420	460	500	540	580	ISO 534
Corona treating, dyne/cm, top *)	min 39	42	42	42	42	42	42	42	42	ASTM D 2578
Baseboard:										
Grammage, g/m ²	±6%	195	210	230	255	270	295	320	350	ISO 536
Thickness, µm	±8%	260	280	320	350	390	430	470	510	ISO 534
Bending resistance L&W 15° MD, mN	min -20%	120	155	215	270	360	475	600	760	ISO 2493-1
Bending resistance L&W 15° CD, mN	min -20%	55	70	95	125	170	210	270	340	
Moisture %	min 5.0%	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	ISO 287
Surface Smoothness, PPS 10, µm, Top	max 1.7	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	ISO 8791-4
Brightness D65/10, Top		85	85	85	85	85	85	85	85	ISO 2470-2
Surface Smoothness, Bendtsen, ml/min	max 130	40	40	40	40	50	50	50	50	ISO 8791-2
Stretch CD, %		6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	ISO 1924-3

Also available without PE-coating on topside
*) Measured right after PE coating



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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

Cupforma Special Barr is a sustainable choice; a high-quality carton board specially designed for cups and for very high requirements on printing. It is food-safe, ecological, and works smoothly and consistently in cup converting. It is also economical as the board's structure provides the required stiffness; resulting in light, yet functional cups. The fully pigment coated top side is very smooth, which ensures extremely high-quality printing results in flexographic, offset, and digital printing to showcase brands. Multilayer Barr coating of PE and EVOH gives excellent protection against moisture, oxygen and grease. Cupforma Special Barr can be used for extended shelf life products like snacks or other dry food.

Printing and finishing techniques

The product can be used for different printing techniques such as offset, flexo and digital printing. It is important to check possible limitations of the printing and converting equipment and ensure that the basis weight of the board fits the tooling to be used. Since a wide variety of digital printing equipment is available in the market, it is important that a new commercial digital print job is always preceded by a trial run, including all required printing and converting process phases.

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.