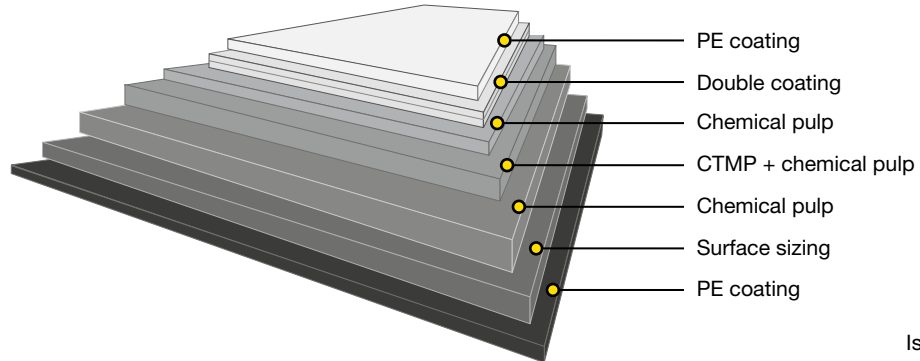


Performa Natura™ 2PE

Fully coated CTMP board

Performa Natura 2PE is a board with a three layer fibre construction and with CTMP (chemi-thermomechanical pulp) in the middle layer and a double-coated top side. The board has PE coating on its both sides.



Issued: 09.2017
Cancels: 08.2014

Technical specification

| Property / Unit | Tolerance | 15+195+15 | 15+210+15 | 15+230+15 | 15+255+15 | 15+270+15 | 15+295+15 | 15+320+15 | 15+350+15 | Standards |
|-------------------------------------|-----------|---|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-------------|
| Polymer coated board: | | | | | | | | | | |
| Grammage, g/m ² | | 225 | 240 | 260 | 285 | 300 | 325 | 350 | 380 | ISO 536 |
| PE Topside, g/m ² | | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | Mill method |
| PE Reverse, g/m ² | | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | |
| Thickness, µm | | 289 | 309 | 349 | 379 | 419 | 459 | 499 | 539 | ISO 534 |
| Baseboard: | | | | | | | | | | |
| Grammage, g/m ² | ±4 % | 195 | 210 | 230 | 255 | 270 | 295 | 320 | 350 | ISO 536 |
| Thickness, µm | ±4 % | 260 | 280 | 320 | 350 | 390 | 430 | 470 | 510 | ISO 534 |
| Bending resistance L&W 15° MD, mN | -15% | 120 | 155 | 215 | 270 | 360 | 475 | 600 | 760 | ISO 2493 |
| Bending resistance L&W 15° CD, mN | -15% | 55 | 70 | 95 | 125 | 170 | 210 | 270 | 340 | |
| Bending moment Taber 15° MD, mNm | -15% | 5.8 | 7.5 | 10.4 | 13.0 | 17.4 | 22.9 | 29.0 | 36.7 | |
| Bending moment Taber 15° CD, mNm | -15% | 2.7 | 3.4 | 4.6 | 6.0 | 8.2 | 10.1 | 13.0 | 16.4 | |
| Bending stiffness DIN 5° MD, mNm | -15% | 10.2 | 13.2 | 18.3 | 23.0 | 30.6 | 40.4 | 51.0 | 64.6 | |
| Bending stiffness DIN 5° CD, mNm | -15% | 4.7 | 6.0 | 8.1 | 10.6 | 14.5 | 17.9 | 23.0 | 28.9 | |
| Moisture, % | | 6.5 | 6.5 | 6.5 | 6.5 | 6.5 | 6.5 | 6.5 | 6.5 | ISO 287 |
| ISO Brightness C/2°, %, Top | | 85 | 85 | 85 | 85 | 85 | 85 | 85 | 85 | ISO 2470-1 |
| Brightness D65/10°, %, Top | | 85 | 85 | 85 | 85 | 85 | 85 | 85 | 85 | ISO 2470-2 |
| Surface Smoothness, PPS 10, µm, Top | | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 | ISO 8791-4 |
| Gloss 75°, % | | 45 | 45 | 45 | 45 | 45 | 45 | 45 | 45 | ISO 8254-1 |
| Scott Bond, J/m ² | | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | TAPPI 569 |
| Robinson chocolate test | | max 0.5 for one year storage in reels/pallets | | | | | | | | EN 1230-2 |

OBA not added

All properties according to Imatra 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°.



Performa Natura™ 2PE

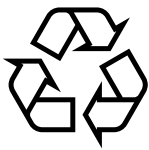
Fully coated CTMP board

Certificates

Quality management ISO 9001
Environmental management ISO 14001
Product safety ISO 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

Performa Natura features a technically advanced structure for material efficiency, toughness, bulk and runnability. No optical brightening additives are used in production of Performa Natura. As a OBA non-added board Performa Natura is highly suitable for pharmaceuticals, food and chocolate packaging. The PE coated board is used in food packaging, for example ice cream and frozen food.

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.

