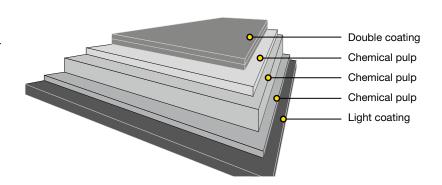


# **Ensocoat**<sup>™</sup>

## Fully coated multilayer SBS board with light coated reverse

Ensocoat is a luxurious, coated SBS (solid bleached sulphate) board with a three-layer fibre construction of chemical pulp. It is double-coated on the top side, with one layer of coating on the reverse side.



Issued: 07.2018 Cancels: 11.2017

### **Technical specification**

Typical properties, US	Tolerance												Method
Caliper, pts		7.7	7.9	9.1	10.4	10.6	11.8	13.0	14.4	16.3	17.5	19.1	
Nominal basis weight, lbs/1000 sq.Ft.		36.9	38.9	43.0	45.1	47.1	51.2	56.3	61.4	67.6	71.7	77.8	
Bending moment Taber MD, gcm		30	37	52	59	79	103	133	185	246	286	365	
Bending moment Taber CD, gcm		13	17	25	30	37	49	64	89	118	133	172	
Scott Bond, Lbfft/1000 in <sup>2</sup>		105	105	105	105	105	105	105	105	105	105	105	
Typical properties, Metric													
Thickness, µm	±4%	195	200	230	265	270	300	330	365	415	445	485	ISO 534
Nominal basis weight, g/m²	±4%	180*	190	210	220**	230	250	275	300	330	350	380	ISO 536
Bending resistance L&W 15° MD, mN	-15%	60	75	105	120	160	210	270	375	500	580	740	ISO 2493-1
Bending resistance L&W 15° CD, mN	-15%	26	35	50	60	75	100	130	180	240	270	350	
Bending moment Taber 15° MD, mNm	-15%	3.0	3.6	5.1	6.0	7.7	10.1	13.0	18.1	24.2	28.0	35.7	
Bending moment Taber 15° CD, mNm	-15%	1.5	1.7	2.4	3.0	3.6	4.8	6.3	8.7	11.6	13.0	16.9	
Bending stiffness DIN 5° MD	-15%	5.5	6.4	8.9	11.5	13.6	17.9	23.0	31.9	42.5	49.3	62.9	
Bending stiffness DIN 5° CD	-15%	2.1	3.0	4.3	5.0	6.4	8.5	11.1	15.3	20.4	23.0	29.8	
Moisture, %	±1, ±1.5 ***	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.0	6.0	6.0	ISO 287
ISO Brightness C/2°, %, Top	min. 92	95	95	95	95	95	95	95	95	95	95	95	ISO 2470-1
ISO Brightness C/2°, %, Reverse	min. 90		93	93	93	93	93	93	93	93	93	93	
Brightness D65/10°, %, Top		103	103	103	103	103	103	103	103	103	103	103	ISO 2470-2
CIE Whiteness D65/10°, Top		135	135	135	135	135	135	135	135	135	135	135	100 44 475
CIE Whiteness D65/10°, Reverse			130	130	130	130	130	130	130	130	130	130	ISO 11475
L* D65/10°, Top		96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	
a* D65/10°, Top		2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	ISO 5631-2
b* D65/10°, Top		-10.5	-10.5	-10.5	-10.5	-10.5	-10.5	-10.5	-10.5	-10.5	-10.5	-10.5	
Surface Smoothness PPS 10, µm, Top	max 1.4	1.0	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	ISO 8791-4
Surface Smoothness PPS 10, µm, Reverse			<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<5.0	<5.0	<5.0	<5.0	
Surface Smoothness Bendtsen, ml/min, Top		20	20	20	20	20	20	20	20	20	20	20	ISO 8791-2
Surface Smoothness Bendtsen, ml/min, Reverse			<100	<100	<200	<200	<200	<200	<200	<300	<300	<400	
Gloss 75°, %, Top		48	48	48	48	48	48	48	48	48	48	48	ISO 8254-1
Scott Bond, J/m <sup>2</sup>	min 140	220	220	220	220	220	220	220	220	220	220	220	TAPPI 569 om-09
Robinson chocolate test		Max 1 for one year storage in reels/pallets							EN 1230-2				

\*) Uncoated on reverse. Limited availability

\*\*) Limited availability

\*\*\*) For 330 – 380 g/m²





## **Ensocoat**<sup>™</sup>

### Fully coated multilayer SBS board with light coated reverse

#### **Certificates**

Quality management ISO 9001 Environmental management ISO14001 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

Ensocoat is Stora Enso's flagship board, crafted to meet the demands of the graphical industry and luxury packaging. Its surface smoothness, printing performance, brightness, whiteness, UV-light resistance and reverse-side print result have been optimized to impress even in the most demanding applications. Produced from responsibly sourced, certified raw materials, it serves as the industry standard for high performance and sustainability. Ensocoat is used for greeting cards, book covers, brochures, folders, calendars, stationery products and displays. In packaging, it is ideal for cosmetics, perfumes, premium chocolate and laminated boxes for champagne and fine spirits. Thanks to the three-layer fibre construction, Ensocoat has outstanding strength, folding, embossing and converting properties.

### 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. 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. Certificates according to PTS-DF 105/2013 and PTS-DF 103/2011 are 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. 68°F)							
	50°F	68°F	86°F					
881 lbs	2 days	2 days	3 days					
1763 lbs	2 days	3 days	4 days					
2645 lbs	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 in its original cover indoors, sheltered from rain and snow. The recommended storage conditions are 50-55% relative humidity and 68-73.4°F.



