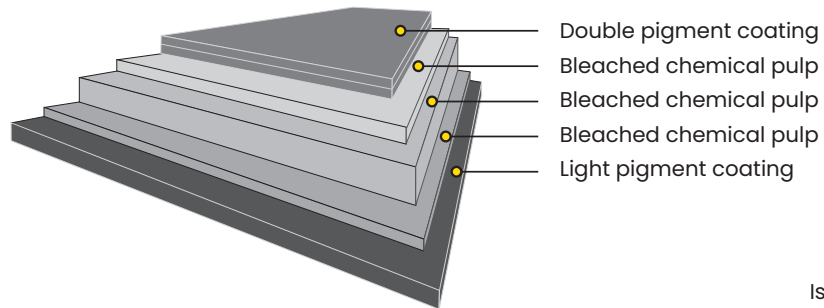


## Fully coated multilayer SBS board with light coated reverse

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



Issued: 04/2026  
Replaces: 08/2025

### Technical specification

Typical properties, Imperial	Unit													
Caliper	pts		7.9	9.1	10.0	10.6	11.8	13.0	14.4	16.3	17.5	19.1		
Nominal basis weight	lb/1000 sq. Ft.		38.9	43	45.1	47.1	51.2	56.3	61.4	67.6	71.7	77.8		
Bending moment Taber 15° MD	g/cm		37	52	61	79	103	133	185	247	286	364		
Bending moment Taber 15° CD	g/cm		17	24	31	37	49	64	89	118	133	172		
Scott Bond	Lbfft/1000 in²		105	105	105	105	105	105	105	105	105	105		
Typical properties, Metric		Tolerance												Method
Thickness	µm	±4%	200	230	255	270	300	330	365	415	445	485		ISO 534
Grammage	g/m²	±4%	190	210	220	230	250	275	300	330	350	380		ISO 536
Bending resistance L&W 15° MD	mN	-15%	75	105	120	160	210	270	375	500	580	740		ISO 2493
Bending resistance L&W 15° CD	mN	-15%	35	50	60	75	100	130	180	240	270	350		ISO 2493
Bending moment Taber 15° MD	mNm	-15%	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%	1.7	2.4	3.0	3.6	4.8	6.3	8.7	11.6	13.0	16.9		
Bending stiffness DIN 5° MD	mNm	-15%	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	mNm	-15%	3.0	4.3	5.0	6.4	8.5	11.1	15.3	20.4	23.0	29.8		
Moisture	%	±1	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		ISO 2470-1
ISO Brightness C/2°, Reverse	%	min. 90	93	93	93	93	93	93	93	93	93	93		ISO 2470-1
ISO Brightness D65/10°, Top	%		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		ISO 11475
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		ISO 5631-2
α*, D65/10°, Top			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		ISO 5631-2
Surface Smoothness PPS10, Top	µm	max 1.4	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 PPS10, Reverse	µm		<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<5.0	<5.0	<5.0	<5.0		ISO 8791-4
Surface Smoothness Bendtsen, Top	ml/min		20	20	20	20	20	20	20	20	20	20		ISO 8791-2
Surface Smoothness Bendtsen, Reverse	ml/min		<100	<100	<200	<200	<200	<200	<200	<300	<300	<400		ISO 8791-2
Gloss 75°, Top	%		48	48	48	48	48	48	48	48	48	48		ISO 8254-1
Scott Bond	J/m²	min 140	220	220	220	220	220	220	220	220	220	220		TAPPI 569 om-22
Robinson chocolate test	-		Max 1 for one year storage in reels/pallets										EN1230-2	

Grammage 220 g/m²: Limited availability.

Moisture: tolerance for grammages 330–380 g/m² is ±1.5 %.

All properties according to 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°.

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### Certificates

Quality management ISO 9001  
 Environmental management ISO 14001  
 Food safety FSSC 22000  
 Occupational health and safety ISO 45001  
 Energy management ISO 50001



FSC and PEFC certified board available upon request.



Paperboard can be recycled

### 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 ideal for cosmetic, perfume, premium chocolate, pharmaceutical and healthcare packaging. It is also used for greeting cards, book covers, folders, calendars, stationery products and displays. Thanks to the three-layer fibre construction, Ensocoat has outstanding strength, folding, embossing and converting properties. This product is compostable in industrial and home composting and can be collected together with food waste in most collecting schemes.

### 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. Certificate according to PTS-DF 105/2023 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 (lbs)	Difference in temperature between board and press room		
	50°F	68°F	86°F
881 lbs (400 kg)	2 days	2 days	3 days
1762 lbs (800 kg)	2 days	3 days	4 days
2643 lbs (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 in its original cover indoors, sheltered from rain and snow. The recommended storage conditions are 50–55% relative humidity and 68–73.4°F.