Ensocoat™

PAPYRUS

SBS board (GZ), woodfree, multilayered, double-coated top and pigmented rear side, smooth finish. Great properties for extremely demanding printing and finishing techniques

Basis weight	**ISO 536**	**g/m²**	**190**	**210**	**230**	**250**	**275**	**300**	**330**	**350**	**380**
Thickness / Caliper	ISO 534	µm	200	230	270	300	330	365	415	445	485
Specific Volume / Bulk	ISO 534	cm³/g	1,05	1,10	1,17	1,20	1,20	1,22	1,26	1,27	1,28
CIE Whiteness	ISO 11475	%	135	135	135	135	135	135	135	135	135
CIE Whiteness (reverse)	ISO 11475	%	130	130	130	130	130	130	130	130	130
ISO Brightness	ISO 2470-1	%	95	95	95	95	95	95	95	95	95
ISO Brightness (reverse)	ISO 2470-1	%	93	93	93	93	93	93	93	93	93
Gloss (Tappi 75°)	ISO 8254-1	%	48	48	48	48	48	48	48	48	48
Bending stiffness (DIN 5° MD)	ISO 5628	mNm	6,4	8,9	13,6	17,9	23,0	31,9	42,5	49,3	62,9
Bending stiffness (DIN 5° CD)	ISO 5628	mNm	3,0	4,3	6,4	8,5	11,1	15,3	20,4	23,0	29,8
Bending resistance (L&W 15° MD)	ISO 2493-1	m/N	75	105	160	210	270	375	500	580	740
Bending resistance (L&W 15° CD)	ISO 2493-1	m/N	35	50	75	100	130	180	240	270	350
Bending moment (Taber 15° MD)	ISO 2493-2	mNm	3,6	5,1	7,7	10,1	13,0	18,1	24,2	28,0	35,7
Bending moment (Taber 15° CD)	ISO 2493-2	mNm	1,7	2,4	3,6	4,8	6,3	8,7	11,6	13,0	16,9
Moisture (absolute)	ISO 287	%	6,5	6,5	6,5	6,5	6,5	6,5	6,0	6,0	6,0
Smoothness (Bendtsen)	ISO 8791-2	ml/min	20	20	20	20	20	20	20	20	20
Smoothness (Bendtsen, reverse)	ISO 8791-2	ml/min	100	100	200	200	200	200	300	300	400
Smoothness (PPS)	ISO 8791-4	µm	0,9	0,9	0,9	0,9	0,9	0,9	0,9	0,9	0,9
Smoothness (PPS, reverse)	ISO 8791-4	µm	4,0	4,0	4,0	4,0	4,0	5,0	5,0	5,0	5,0
L* D65/10°	ISO 5631-2		96,5	96,5	96,5	96,5	96,5	96,5	96,5	96,5	96,5
a* D65/10°	ISO 5631-2		2,5	2,5	2,5	2,5	2,5	2,5	2,5	2,5	2,5
b* D65/10°	ISO 5631-2		-10,5	-10,5	-10,5	-10,5	-10,5	-10,5	-10,5	-10,5	-10,5

All properties are according to mill measurements that may be subject to fluctuations which are customary within the industry

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Applications

• Covers for books and brochures, Folders, Tags, Luxury packaging, Laminations for displays and cardboard packaging, Folding boxes, Greeting cards, Invitation cards, Membership cards, Menu cards, Post cards, Promo cards, Signs, Vouchers, Wall calendars, Desktop calendars, Desktop displays, Inserts

Technical product certificates and information

- Permanent paper (DIN/ISO 9706)
- Aging resistance (DIN 6738)
- Toy Safety: Migration of elements (DIN EN 71/3)
- Food safety (EC 1935/2004)
- Food safety (FSSC 22000)
- Food safety (BfR recommendation XXXVI)
- Free from heavy metals according to EU packaging directive (94/62/EC)

Environmental product certificates and information

- FSC®
- European Ecolabel (EU Flower)
- Elemental chlorine free (ECF)

FSC www.fsc.org The mark of responsible forestry FSC® C004423

EU Ecolabel www.ecolabel.eu

Supplier certificates

- FSC®
- PEFC™
- Environmental Management System (ISO 14001)
- Quality Management System (ISO 9001)
- Energy management (ISO 50001)
- Occupational Health and Safety Management System (OHSAS 18001)

Technical capability

Printing technologies:	Absorbent substrate that is suitable for offset, UV-offset and screen printing. A sufficient quantity of printing powder with an appropriate particle size has to be considered.
Screen ruling:	All conventional screen rulings up to 80 l/cm (200 lpi) are applicable. When using other screen technologies, tests are recommended before print production.
Printing inks:	Suitable for inks that dry by absorption and oxidation (Offset), for UV-inks and screen printing inks.
Ink drying:	The drying process of the conventional offset ink is entirely completed within 24 to 48 hours, depending on the thickness of the ink film.
Printing pressure:	Standard pressure
Finishing:	All types of varnishing such as overprint-, water-based and UV varnishes, as well as cold foil transfer, hot foil stamping, embossing and die-cutting are possible.
Hot foil stamping:	suitable
Laminating:	suitable
Creasing & folding:	For the substances of 150 g/m² and higher, the folding process has to be prepared via creasing. In order to obtain the best possible folding results, the common standard values for creasing have to be considered.
Handling information:	The flatness of this paper is guaranteed at a relative humidity between 45 and 55% at a temperature between 20 and 23°C. It is recommended that the printing room has comparable climatic conditions. The paper should be kept as long as possible in the mill-wrapper before use. Extreme changes in temperature and humidity should be avoided.

For all printing and processing techniques, the recommendations of the manufacturers of machines, inks, adhesives, laminating and embossing foils, etc. are to be followed. For damages caused by faulty implementation of printing and processing, Papyrus cannot accept any liability.