

## CORE UNCOATED

Substance g/m <sup>2</sup>	80	90	100	110	120	140	150	170	190	250	300
Caliper µm (approx)	102	113	124	136	144	168	180	199	222	293	345
Opacity (ISO) %	91.5	93	94.5	95.5	96.5	98	98.5	99			
Brightness (ISO) D65	104	104	104	104	104	104	104	104	104	104	104
Whiteness CIE D65	142	142	142	142	142	142	142	142	142	142	142
Smoothness (Bendtsen) ml/min TS	300	300	300	300	300	350	350	350	400	500	600
Smoothness (Bendtsen) ml/min WS	300	300	300	300	300	350	350	350	400	500	600
Rigidity (Taber Stiffness Units) 15° MD	2	3.4	3.8	5.2	5.8	8.2	12	20	24	49	74
Rigidity (Taber Stiffness Units) 15° CD	0.8	1.3	1.5	1.7	2.3	3.6	4.6	6	7.7	22	36
Surface pH	>7	>7	>7	>7	>7	>7	>7	>7	>7	>7	>7

### Technical Capability

Printing Process	Litho
Screen Ruling	Up to 150
Printing Inks	Conventional, UV and IR are preferred, however Press open inks have been used satisfactorily
Embossing	Yes
Varnishing	Board substances only: Machine or UV screen varnishing are both possible, provided it is carried out on top of emulsion sealing. For high gloss results it will be necessary to matt UV varnish on top of emulsion sealer before gloss UV varnishing. Any varnish applied directly to unprinted areas of the sheet may cause variations in gloss levels.
Emulsion Sealing	Yes, board substances only
Hot Foil Blocking	Yes
Creasing	Pre-creasing is advisable on 150gsm and above by using a creasing matrix.
Food Contact	Yes, direct food contact with dry, fatty and moist foodstuffs
Toy Safety	Yes, complies with EN71 Part 3 Toy Safety Regulations
Permanence of Paper	Yes, meets ISO9706 requirements for Permanence of Paper

### Environmental Information

Fibre Source	Virgin wood fibre from Germany, Sweden, Uruguay, Austria and Brazil
Bleaching	Pulp is bleached using a Totally Chlorine Free (TCF) process
Disposal	This material can be disposed of by recycling
Accreditation	Produced at a mill that is certified with the ISO14001 environmental management standard Produced at a mill that is certified to the EMAS environmental management standard PEFC Certified