

Candlesce®

PREMIUM PAPERBOARD



CIRCULAR SBS PAPERBOARD
for Folding Carton & Print Applications



CLEARWATER
PAPER®

CANDESCENCE® PRODUCT GUIDE

Candesce® C1S FOLDING CARTON

English	Units	10-129	11-138	12-143	14-163	15-172	16-182	17-193	18-199	20-217	22-233	24-250	26-273	28-294
Caliper (nominal)	mils	10	11	12	14	15	16	17	18	20	22	24	26	28
Basis Weight (nominal)	lbs/3msf	129	138	143	163	172	182	193	199	217	233	250	273	294
Brightness	GE	89	89	89	89	89	89	89	89	89	89	89	89	89
b* Value	Spectro	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
Smoothness (primary side)	Sheffield	12	15	15	18	18	18	20	20	22	23	25	32	35
Parker Print	microns	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
Plybond / ZDT	lbs/in ²	65	65	55	45	45	45	45	40	40	40	40	40	40
Stiffness – MD	g-cm	50	55	80	115	145	165	200	225	295	385	460	560	650
Stiffness – CD	g-cm	25	28	40	55	70	80	90	110	150	195	230	275	345
Metric	Units													
Thickness	microns	254	279	305	356	381	406	432	457	508	559	610	660	711
Basis Weight (nominal)	g/sq.m	210	225	233	265	280	296	314	324	353	379	407	444	478
Stiffness – MD	mN	98	108	162	233	294	280	392	441	579	755	902	1098	1275
Stiffness – CD	mN	51	55	81	112	142	162	177	223	305	396	467	558	677

Candesce® C1S provides superior printability, uniform ink absorption, and state-of-the-art converting performance. The consistent blue-white shade, brightness, and ultra-smooth printing surface deliver vivid color throughout the spectrum for your most demanding print applications.

PRODUCT USES

- Health and beauty packaging
- Pharmaceutical packaging
- Confectionery and bakery boxes
- Dry and frozen food packaging
- Consumer electronics
- Business and greeting cards

Candesce® is manufactured at Clearwater Paper's three strategically located SBS paperboard mills, enabling supply redundancy, enhanced logistical flexibility, and consistent product quality to deliver superior service and reliability.

Our sustainable product portfolio includes:

- Candesce® C1S
- Candesce® Top Sheet
- Candesce® C1S Blister
- Candesce® Foldover Blister
- Candesce® Skin
- Candesce® Cupstock
- Candesce® Gable Pak®
- Ancora® C2S
- ReImagine® C1S with 30% PCF*
- ReImagine® C1S Blister with 30% PCF*
- ReImagine® Foldover Blister with 30% PCF*
- NuVo® Cupstock with 35% PCF*

*PCF - Post-Consumer Recycled Fiber



CANDESCENCE® PRODUCT GUIDE

Candesce® C1S TOP SHEET LINER

English	Units	8-114	9-120	9-120	10-129	12-143
Caliper (nominal)	mils	8 HS	9	9 HS	10	12
Basis Weight (nominal)	lbs/3msf	114	120	120	129	143
Brightness	GE	89	89	89	89	89
b* Value	Spectro	1.2	1.2	1.2	1.2	1.2
Smoothness (primary side)	Sheffield	15	15	15	20	20
Parker Print	microns	1.1	1.1	1.1	1.1	1.1
Plybond / ZDT	lbs/in ²	115	90	90	80	55
Stiffness – MD (Taber bending moment)	g-cm	33	37	37	50	80
Stiffness – CD (Taber bending moment)	g-cm	13	15	15	20	30
Metric	Units					
Thickness	microns	203	229	229	254	305
Basis Weight (nominal)	g/sq.m	185	195	195	210	233
Stiffness – MD	mN	65	73	73	98	156
Stiffness – CD	mN	25	30	30	40	60

PRODUCT USES

- Litho laminated packaging
- Premium corrugated packaging
- Retail-ready packaging
- Shelf-ready packaging

HS = High Strength

Candesce® Top Sheet Liner offers the exceptional printability of folding carton board with the strength of corrugated package. The coated liner provides increased shelf appeal by extending your brand image to corrugated packaging.

CANDESCENCE® ADVANTAGES

CONSISTENT PERFORMANCE

Our proprietary fiber blending technology provides consistency in die-cutting, glue adhesion and high-definition printing.

HIGH-DEFINITION COATING

Ultra-smooth print surface enhances upscale images for premium graphic applications.

OPTIMIZED CONVERTING SPEEDS

Genuine SBS provides significant converting speed improvements to increase folder/gluer machine capacity versus FBB, CUK, and CRB.

DEPENDABLE FILL PERFORMANCE

Designed with structural strength to maximize product filling speeds and reduce downtime versus CRB and FBB.

CALIPER CHOICES

Range of folding carton calipers from 10pt to 28pt provides consistency across multiple brand designs.

SHADE PRECISION

Color shade balance enhances the print accuracy of skin tones.

COLOR LOSS RESISTANCE

Free of optical brighteners (OBA) to maintain print color vibrancy.



SELECTED STANDARDS & CERTIFICATIONS

Fiber Procurement and Chain-of-Custody

- FSC® Chain of Custody Certifications: SA-COC-012976
FSC® Controlled Wood COC Certifications: SA-CW-012976
FSC® certified paperboard available by request only
- SFI® fiber sourcing, chain of custody, and product labeling certification: NSF-SFI-COC-C0035688
- PEFC™ chain of custody: NSF-PEFC-COC-0035688
PEFC™ certified paperboard available by request only

Sustainability

- BPI® (Biodegradable Products Institute) certifications:
#10529756-1 - Lewiston, ID Mill
#10529756-2 - Cypress Bend, AR Mill
For more information, contact your Clearwater Paper representative



Health and Safety

- U.S. California Proposition 65 compliant
- CONEG model heavy metal and EC/94/62 article II compliant
- Elemental Chlorine Free (ECF) bleached fiber
- RoHS3 (Restriction of Hazardous Substances) compliant
- Canadian Environmental Protection Act, 1999 compliant
- European Chemicals Agency (ECHA) Substances of Very High Concern (SVHC) compliant

Food Contact

- USFDA 21 CFR176.170 - Contact with aqueous and fatty foods
- USFDA 21 CFR176.180 - Contact with dry food and food

Manufacturing

- ISO 9001: 2015 certification numbers: QSR-249 (Lewiston); QSR-2006 (Augusta)
- TCB Audit Services C21082a certification (Cypress Bend)



Visit our website to learn more about our sustainable products:
clearwaterpaper.com



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The product values fall within standard mill tolerances and are subject to change without notice.

Candesce® C1S is tightly controlled to caliper. Basis weight may vary by production run.

Average b* value data is presented for relative paperboard shade comparisons, not as product specifications.

Not all calipers are produced at all mills.

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