

# Proto Litho<sup>TM</sup> c1s

**Substantial feel at a lighter weight.** Proto Litho brings all the best-in-class benefits of Proto—including an advantaged surface, a substantial feel, and sturdiness under pressure—to meet your corrugated litho lamination packaging needs. A paperboard that is lightweight and dependable, Proto Litho helps products make a statement, without sacrificing strength and adhesion for maximum converting efficiency. Consistent ROI—that's the new standard.

## The Proto Litho packaging experience

### Product uses

- Displays
- Mailing envelope
- Fashion and lifestyle
- Consumer electronics
- Beverage
- Food packaging
- POS material (Point of Sale)
- Shelf ready packaging

### Product classification

Solid Bleached Sulfate  
SBS Paperboard

### Unmatched yield advantage

Proto Litho achieves a lower basis weight in higher caliper options, resulting in a substantial product, that significantly reduces paper and distribution costs.

### Consistent downstream performance

As an SBS board, Proto Litho has the strength and durability to optimize lamination to corrugated board for a variety of applications. It's designed with exceptional adhesion properties and dimensional stability, providing more flexibility in layout and downstream operations.

### Strict tolerance standards

Using only tight tolerance standards, Proto Litho's uniform printing surface delivers minimal variability within and across production runs.

### Enhanced optics for lasting impact

With a vibrant blue-white shade and unique coating formulation, Proto minimizes fade resistance—ensuring lasting whiteness and image integrity.

### Superior surface and printability

Proto Litho's smooth and uniform surface has a proprietary coating engineered for brilliant color reproduction, sharper details and better ink holdout. It's surface is optimal for reproducing special effects such as foil stamping, blind embossing, and a variety of varnishes and spot UV applications.

### Food contact/health and safety

- US FDA Title 21 §CFR 176.170 and 176.180 compliant (restrictions may apply)
- Canada Food and Drug Regulations Section 23 compliant
- Elemental Chlorine Free (ECF)
- Canada EPA Chemical Challenge List compliant
- California Proposition 65 (labeling is not required)
- REACH Regulation 1907/2006/EC (registration is not required and the product does not contain any substances found on the SVHC Candidate List)
- RoHS (Restriction of Hazardous Substance) compliant
- Heavy metals: compliant to the Model Toxics in Packaging Legislation (formerly known as CONEG) and Directive 94/62/EC

# The Sappi experience

## Innovation

In our state-of-the-art Somerset mill located in Skowhegan, Maine, we continue to invest in machinery designed to deliver a high-quality product with optimal performance throughout the converting process.

## Certifications

All of Sappi North America's coated and packaging paper mills are triple certified in accordance with the leading global sustainable forestry chain of custody certification systems including the Forest Stewardship Council® (FSC-C014955), the Sustainable Forestry Initiative® (SFI) program and the Programme for the Endorsement of Forest Certification™ (PEFC). Product certifications are available upon request, pending availability of credits. The producing mill is ISO 9001, ISO 14001, OHSAS 18001 certified.

## Non-integrated supplier

With Sappi, your business is your business. We focus only on producing paperboard, prioritizing the needs of independent converters, and providing you a quality, cost-efficient product.

## Sales and tech support

Our teams have the expertise and dedication to ensure customer success before and after the sale. The Sappi technical services group can help with all aspects of printing and converting, and our sales team provides end-to-end packaging support.

## Sustainability

Sappi North America is an industry leader in sustaining a low carbon footprint, with approximately 80 percent of our energy generated from renewable or alternative fuels. We are committed to decreasing energy consumption, reducing waste and improving process efficiencies across our entire manufacturing process. In 2018 we earned a Gold Rating from EcoVadis, a highly regarded rating firm assessing over 30,000 companies annually around the globe. Our Gold Rating puts us in the top 4% of all companies surveyed across a broad range of social and environmental indicators.



Paper Machine 1 at Somerset Mill.

## PROTO LITHO (IMPERIAL)

PROPERTY	SPECIFICATIONS			UNITS	METHOD	TOLERANCE
Caliper	8	10	12	mils	TAPPI T411	± 0.5
Nominal BW (24" x 36")	109	120	141	lb/3000 ft²	TAPPI T410	
Moisture	6.5%	6.5%	6.5%	percent	TAPPI T412	
Taber Stiffness (15°) MD	23	36	65	g-cm	TAPPI T489	± 15%
Taber Stiffness (15°) CD	17	25	47	g-cm	TAPPI T489	± 15%
Cobb Size (2 minute)	50	50	50	g/m²	TAPPI T441	

### COATED SIDE

GE Brightness	87.5	87.5	87.5	percent	Tappi T452	
Parker Print (Tappi)	1.0	1.0	1.0	micron	Tappi T555	
ZDT	70	50	50	psi	Tappi T541	
Shade - L value	93	93	93			
Shade - a value	-0.4	-0.4	-0.4			
Shade - b value	1.0	1.0	1.0			

## PROTO LITHO (METRIC)

PROPERTY	SPECIFICATIONS			UNITS	METHOD	TOLERANCE
Thickness	203	254	305	micron	TAPPI T411	± 12.7
Nominal Grammage	177	195	230	gsm	TAPPI T410	
Moisture	6.5%	6.5%	6.5%	percent	TAPPI T412	
Taber Stiffness (15°) MD	2.3	3.5	6.4	mNm	TAPPI T489	± 15%
Taber Stiffness (15°) CD	1.7	2.5	4.6	mNm	TAPPI T489	± 15%

### COATED SIDE

GE Brightness	87.5	87.5	87.5	percent	Tappi T452	
Parker Print (Tappi)	1.0	1.0	1.0	micron	Tappi T555	
ZDT	483	345	345	kPa	Tappi T541	
Shade - L value	93	93	93			
Shade - a value	-0.4	-0.4	-0.4			
Shade - b value	1.0	1.0	1.0			

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**Production Notes**  
Flo Digital Dull Cover  
100lb/270gsm,  
4-color process

Sappi North America FSC License Code FSC-C014955. The data, specifications and/or certifications provided herein are current as of the date of printing and may change without notice at Sappi's discretion.

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Sappi Packaging products may be available as certified upon request. For more information, please contact your Sappi representative or visit our website at sappi.com.

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