

# PharmaLock® Endurance

## For blister packs that please seniors and protect children.

When it comes to packaging that is both senior-friendly and child-resistant, you can't go wrong with patented Smurfit Westrock PharmaLock® Endurance. This durable paperboard is especially suited for fold-over pharmaceutical blister card applications where added theft or child resistant packaging designs is crucial. From a production standpoint, PharmaLock Endurance allows heat sealing to a wide range of blister foils and films, including Honeywell's Aclar®.

### Features

- Tear resistance
- Polymer coating
- Aclar compatible
- Low-temperature seal
- Product uniformity
- Converting simplicity

### Benefits

- Combines the rigidity of paperboard with the tear-resistance of a proprietary extrusion lamination. It performs well when used with child-resistant packaging designs.
- Offers completely sealable surfaces, unlike competitive products that simply trap the thermoformed blister.
- Consistently seals to Honeywell's Aclar, a barrier film increasingly used in pharmaceutical packaging. It also offers superior adhesion to a wide variety of films and foils for broader packaging applications, including PVC, PVDC-coated, PVC PET and polystyrene.
- Effectively seals at lower temperatures than competitive alternatives. This increases line speed, minimizes product damage risks and reduces ink degradation.
- A smooth surface delivers outstanding ink holdout and best-in-class print consistency. Ideal for promotional messages, graphics and compliance information on fold-over packaging.
- Eliminates the need to apply heat-seal coating, which improves converting efficiency and reduces inventory costs.

### Additional product information

#### Sustainability

- All Smurfit Westrock North American paperboard mills are certified to the SFI®, PEFC, FSC® Chain of Custody Standards. Contact your Smurfit Westrock sales representative for certified fiber availability for this product.
- Certificate Codes:
  - SFI Certified Sourcing: NSF-SFI-CS-6S751
  - SFI CoC: NSF-SFI-COC-6S751
  - PEFC CoC: NSF-PEFC-COC-0000751
  - FSC CoC: SA-COC-010294

#### Quality

- Manufactured in a Smurfit Westrock North American facility certified under ISO 9001, ensuring consistent quality management standards.

#### Environmental and Product Safety

- Notices under US California Proposition 65 and the EU REACH regulation are not required.
- Elemental chlorine free (ECF) bleached fiber.
- Meets heavy metal limits of the US Model Toxics in Packaging rules and Article 11 of EU Directive 94/62/EC.

### Applications

- Beauty and Personal Care
- Healthcare

### Product classification

- Solid bleached sulfate
- SBS paperboard
- GZ

## Grade availability and typical board properties (U.S.)

Grade availability by caliper					Units	Method	
<b>Caliper</b>		0.010	0.012	0.014	0.018	inches	T-411
<b>Nominal basis weight</b>		124	145	163	199	lbs/3000 sq ft	T-410
<b>Moisture content</b>		5.3	5.3	5.3	5.6	percent	T-412
<b>Internal bond</b>		75	65	70	70	.001 ft-lb/sq in	T-569
<b>ZDT</b>		60	52	47	40	psi	T-541
<b>Stiffness</b>							
<b>Taber 15°</b>	<b>MD</b>	60	85	120	220	gf-cm	T-489
	<b>CD</b>	30	45	60	120	gf-cm	T-489
<b>Coated side</b>							
<b>GE brightness</b>		86	86	86	86	percent	T-452
<b>Parker Print</b>		1.0	1.0	1.0	1.2	µm	T-555
<b>Color</b>							
<b>Hunter</b>	<b>L</b>	93	93	93	93	L-a-b	T-524
	<b>a</b>	-0.8	-0.8	-0.8	-0.8	L-a-b	T-524
	<b>b</b>	1.5	1.5	1.5	1.5	L-a-b	T-524

Values are for basestock only; for nominal basis weight including polymer, add 34 lbs/3000 sq ft.

## Grade availability and typical board properties (Metric)

Grade availability by weight					Units	Method	
<b>Thickness</b>		254	305	356	457	microns	T-411
<b>Nominal basis weight</b>		202	236	265	324	gsm	T-410
<b>Moisture content</b>		5.3	5.3	5.3	5.6	percent	T-412
<b>Internal bond</b>		158	137	147	147	J/m <sup>2</sup>	T-569
<b>ZDT</b>		414	359	324	276	kPa	T-541
<b>Stiffness</b>							
<b>Taber 15°</b>	<b>MD</b>	5.9	8.3	11.8	21.6	mNm	T-489
	<b>CD</b>	2.9	4.4	5.9	11.8	mNm	T-489
<b>Coated side</b>							
<b>GE brightness</b>		86	86	86	86	percent	T-452
<b>Parker Print</b>		1.0	1.0	1.0	1.2	µm	T-555
<b>Color</b>							
<b>Hunter</b>	<b>L</b>	93	93	93	93	L-a-b	T-524
	<b>a</b>	-0.8	-0.8	-0.8	-0.8	L-a-b	T-524
	<b>b</b>	1.5	1.5	1.5	1.5	L-a-b	T-524

Values are for basestock only; for nominal basis weight including polymer, add 55 gsm. Metric values are calculated through standard unit conversions and are provided for informational reference. Values are subject to change without notice.

For more information, please contact your Smurfit Westrock representative or visit our website at [smurfitwestrock.com](https://www.smurfitwestrock.com).

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