

# PolarShield® PET

## A worthy option when moisture isn't an issue.

When you desire strength and wet conditions aren't a factor, turn to Smurfit Westrock PolarShield® PET. It's a perfect choice for frozen and bakery applications. Use it to create packages capable of going from shelf or freezer directly to a conventional or microwave oven. This eliminates excess packaging expenses. Beyond performance, PolarShield PET also looks attractive enough for consumers to take to their dining table.

### Features

- Thermal stability
- Single package solution
- Product uniformity
- Heat sealability

### Benefits

- An extruded barrier polymer, available in a clear option, enables performance from -40°F (-40°C) to 428°F (220°C).
- A smooth surface delivers outstanding ink holdout and best-in-class printing consistency. Polymer coat-weight uniformity offers improved efficiencies and maximum throughput on high-speed forming and filling equipment.
- Delivers savings and source reduction over alternatives that require outer cartons or wraps. The result is a cost-efficient packaging solution with an improved sustainability profile.
- Outstanding heat-sealing performance across a range of technologies, including hot air, platen and microwave. This means you can expect improved efficiency and ultimate flexibility.

## 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.

### Food Contact

- Meets multiple national requirements for food contact packaging, e.g., US and Canada. Contact your sales representative for information on specific markets and end uses.
- Kosher documentation available.

### Applications

- Frozen foods
- Retail foods
- Foodservice

### Product classification

- Polymer-coated
- Solid bleached sulfate
- SBS paperboard
- GZ

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

Grade availability by caliper							Units	Method	
Caliper		0.010	0.012	0.014	0.016	0.018	0.024	inches	T-411
Nominal basis weight		124	145	163	182	199	250	lbs/3000 sq ft	T-410
Moisture content		5.3	5.3	5.3	5.6	5.6	5.6	percent	T-412
Internal bond		75	65	70	70	70	80	.001 ft-lb/sq in	T-569
ZDT		60	52	47	40	40	40	psi	T-541
Stiffness									
Taber 15°	MD	55	85	120	170	220	440	gf-cm	T-489
	CD	25	45	60	95	120	230	gf-cm	T-489
Coated side									
GE brightness		86	86	86	86	86	86	percent	T-452
Parker Print		1.0	1.0	1.0	1.2	1.2	1.2	µm	T-555
Color									
Hunter	L	93		93	93	93	L-a-b	T-524	
	a	-0.8		-0.8	-0.8	-0.8	L-a-b	T-524	
	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, and 24 lbs/3000 sq ft (clear).

Grade availability and typical board properties (Metric)

Grade availability by weight								Units	Method
Thickness		254	305	356	406	457	610	microns	T-411
Nominal basis weight		202	236	265	296	324	407	gsm	T-410
Moisture content		5.3	5.3	5.3	5.6	5.6	5.6	percent	T-412
Internal bond		158	137	147	147	147	168	J/m²	T-569
ZDT		414	359	324	276	276	276	kPa	T-541
Stiffness									
Taber 15°	MD	5.4	8.3	11.8	16.7	21.6	43.2	mNm	T-489
	CD	2.5	4.4	5.9	9.3	11.8	22.6	mNm	T-489
Coated side									
GE brightness		86	86	86	86	86	86	percent	T-452
Parker Print		1.0	1.0	1.0	1.2	1.2	1.2	µm	T-555
Color									
Hunter	L	93	93	93	93	93	93	L-a-b	T-524
	a	-0.8	-0.8	-0.8	-0.8	-0.8	-0.8	L-a-b	T-524
	b	1.5	1.5	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 39 gsm (clear). 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://smurfitwestrock.com).

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