PolarShield® Ovenable

Make excess packaging a distant memory.

How do you reduce packaging costs and increase consumer convenience? The solution: Smurfit Westrock PolarShield® Ovenable. The equation is simple: replace a multi-part package with a single folded carton. With PolarShield Ovenable, hungry consumers can go from freezer to oven to table. Better yet, it performs equally well in conventional and microwave ovens. Ultimately, PolarShield Ovenable is a perfect marriage of form and function. It provides exceptional aesthetics and superior function. No wonder it is the benchmark for oven-ready packaging.

Applications

- Frozen foods
- Retail foods
- Foodservice

Product classification

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

Features

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

- 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.

Benefits

- An extruded barrier polymer, available in a clear option, enables performance from -40°F (-40°C) to 428°F (220°C).
- Engineered to withstand the demands of frozen food environments. Maintains integrity throughout the cyclical conditions of the cold distribution chain.

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.

Paper | Packaging | Solutions

smurfitwestrock.com

Smurfit Westrock

PolarShield® Ovenable

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

Grade availability by caliper						Units	Method
Caliper		0.014	0.016	0.018	0.020	inches	T-411
Nominal basis weight		163	182	199	212	lbs/3000 sq ft	T-410
Moisture content		5.3	6.2	6.2	6.2	percent	T-412
Internal bond		70	70	70	75	.001 ft-lb/sq in	T-569
ZDT		47	45	40	40	psi	T-541
Stiffness							
Taber 15°	MD	120	170	220	280	gf-cm	T-489
	CD	60	95	120	155	gf-cm	T-489
Coated side							
GE brightness		86	86	86	86	percent	T-452
Parker Print		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).

PolarShield® Ovenable

Grade availability and typical board properties (Metric)

Grade availability by weight						Units	Method
Thickness		356	406	457	508	microns	T-411
Nominal basis weight		265	296	324	345	gsm	T-410
Moisture content		5.3	6.2	6.2	6.2	percent	T-412
Internal bond		147	147	147	158	J/m²	T-569
ZDT		324	310	276	276	kPa	T-541
Stiffness							
Taber 15°	MD	11.8	16.7	21.6	27.5	mNm	T-489
	CD	5.9	9.3	11.8	15.2	mNm	T-489
Coated side							
GE brightness		86	86	86	86	percent	T-452
Parker Print		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, 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.**

Paper | Packaging | Solutions

smurfitwestrock.com

Smurfit Westrock