

PolarShield® PET

PRODUCT GUIDE

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
- Product uniformity
- Single package solution
- 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 highspeed forming and filling equipment.
- Delivers savings and source reduction over alternatives that require outer cartons or wraps. The result is a costefficient 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

- 100% PEFC Certified - NQT-PEFC-COC-0332. Contact your Smurfit Westrock sales representative for certified fibre availability for this product.
- Certified to Chain of Custody Standards
 - SFI, PEFC/29-31-216
 - FSC C104002

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 fibre.
- 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, Canada and the EU. Contact your sales representative for information on specific markets and end uses.

Applications

- Frozen foods
- Retail foods
- Foodservice

Product classification

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

Region

- EMEA (Europe, the Middle East and Africa)

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Grade availability (EMEA) and typical board properties

Grade availability							Units	Method	
Nominal basis weight		202	236	265	296	324	407	gsm	T-410
Caliper (pts)		0.010	0.012	0.014	0.016	0.018	0.024	inches	T-411
Thickness		254	305	356	406	457	610	microns	T-411
Moisture content		5.3	5.3	5.3	5.6	5.6	5.6	percent	T-412
Internal bond		120	104	112	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
Colour									
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 40 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.

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