WestRock

PolarShield™ PET
A worthy option when moisture isn't an issue.

When you desire strength and wet conditions aren't a factor, turn to 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.

Packaging uses

Frozen Foods

Retail Foods

Foodservice

Product Classification

Polymer-Coated

Solid Bleached Sulfate

SBS Paperboard

GZ

What You Can Expect from Us

Thermal Stability	An extruded barrier polymer, available in a clear option, enables performance from -40°F (-40°C) to 428°F (220°C).
Product Uniformity	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.
Single Package Solution	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.
Heat Sealability	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 WestRock North American paperboard mills are certified to the SFI®, PEFC™, FSC™ Chain of Custody Standards. Contact your WestRock sales representative for certified fiber availability for this product.
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. Kosher documentation available.
Quality	Produced at an ISO 9001 certified facility.
Environmental and 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.

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Grade Availability & Typical Properties (U.S.)

PolarShield™ PET

Grade Availability by Caliper								Units	Method	Tolerance
Caliper (pts)		0.010	0.012	0.014	0.016	0.018	0.024	inches	T-411	+/- .001
Nominal Basis Weight		124	145	163	182	199	250	lbs/3000 sq ft	T-410	
Moisture		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	
Stiffness										
Taber 15°	MD	55	85	120	170	220	440	gf-cm	T-489	+/- 15%
	CD	25	45	60	95	120	230	gf-cm	T-489	+/- 15%
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	
ZDT		60	52	47	40	40	40	psi	T-541	
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 24 lbs/3000 sq ft (clear).

Grade Availability & Typical Properties (Metric)

Grade Availability by Weight								Units	Method	Tolerance
Thickness		254	305	356	406	457	610	microns	T-411	+/-25.4
Nominal Basis Weight		202	236	265	296	324	407	gsm	T-410	
Moisture		5.3	5.3	5.3	5.6	5.6	5.6	percent	T-412	
Internal Bond		120	104	112	147	147	168	J/m^2	T-569	
Stiffness										
Taber 15°	MD	5.4	8.3	11.8	16.7	21.6	43.1	mNm	T-489	+/- 15%
	CD	2.5	4.4	5.9	9.3	11.8	22.6	mNm	T-489	+/- 15%
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	
ZDT		414	359	324	276	276	276	kPa	T-541	
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 40 gsm (clear).

Values are subject to change without notice.

For more information, please contact your WestRock representative or visit our website at westrock.com.

The information contained in this Product Guide is accurate to the best of WestRock's knowledge and belief. It is intended, however, only as an introduction to the typical properties of the product. WestRock disclaims any guarantee or warranty with respect to the accuracy of this information or, based on this document, with respect to the suitability of the product for any particular use, including, but not limited to, the compliance of the product with laws, regulations, or standards. This information is subject to change without notice.

Certificate Codes: SFI Certified Sourcing: NSF-SFI-CS-6S751, SFI CoC: NSF-SFICOC-6S751, PEFC: NSF-PEFCCOC-6S751, FSC Company Code: FSC-C104002

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