

WestRock PolarShield™ HMR

Setting a new standard for premium appearance.

Exceptional moisture resistance in a single-sheet paperboard. That's what you can expect from WestRock PolarShield™ HMR (high moisture resistance). It's designed to endure the rigor of multiple freeze-thaw cycles throughout the cold chain. It provides a reliable solution for applications such as seafood packaging that operate in an extremely wet environment. A bright white, glossy-coated side combined with a smooth, uncoated back ensure consistency on the printing press, in filling lines and in high-speed converting operations.

Packaging Uses

Frozen Food
Applications
with Cold Chain
Challenges

Frozen and
Refrigerated
Seafood

Frozen Variety
Meats

Product Classification

Polymer-Coated

Solid Bleached
Sulfate

SBS Paperboard

GZ

What You Can Expect from Us

Moisture Resistance Delivers outstanding moisture resistance and wet durability, ideal for frozen and refrigerated seafood packaging and other tough applications.

Superior Quality Maintains structural integrity and appearance excellence for products subjected to freeze-thaw cycles and humidity fluctuations.

Fade Resistance Classic white styling is achieved without using Optical Brightening Agents (OBA). This results in high whiteness without fading.

Surface Uniformity A smooth surface delivers outstanding ink holdout and best-in-class uniformity. This helps optimize runnability on converting and filling equipment.

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, Germany and the EU. Contact your sales representative for information on specific markets and end uses.
ISEGA Certificate available.
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.

Grade Availability & Typical Properties (U.S.)

PolarShield™ HMR

Grade Availability by Caliper					Units	Method	Tolerance
Caliper (pts)		0.015	0.016	0.018	inches	T-411	+/- .001
Nominal Basis Weight		172	182	199	lbs/3000 sq ft	T-410	
Moisture		5.5	5.6	5.6	percent	T-412	
Internal Bond		70	70	70	.001 ft-lb/sq in	T-569	
Stiffness							
Taber 15°	MD	150	170	220	gf-cm	T-489	
	CD	85	95	120	gf-cm	T-489	
Coated Side							
GE Brightness		86	86	86	percent	T-452	
Parker Print		1.1	1.1	1.2	µm	T-555	
ZDT		45	45	40	psi	T-541	
Color							
Hunter	L	93	93	93	L-a-b	T-527	
	a	-0.8	-0.8	-0.8	L-a-b	T-527	
	b	1.5	1.5	1.5	L-a-b	T-527	

Values are for basestock only; for nominal basis weight including polymer, add 14.4 lbs/3000 sq ft per 1.0 mil of polymer.

Grade Availability & Typical Properties (Metric)

Grade Availability by Weight					Units	Method	Tolerance
Thickness		381	406	457	microns	T-411	+/- 25.4
Nominal Basis Weight		280	296	324	gsm	T-410	
Moisture		5.5	5.6	5.6	percent	T-412	
Internal Bond		147	147	147	J/m2	T-569	
Stiffness							
Taber 15°	MD	14.7	16.7	21.6	mNm	T-489	
	CD	8.3	9.3	11.8	mNm	T-489	
Coated Side							
GE Brightness		86	86	86	percent	T-452	
Parker Print		1.1	1.1	1.1	µm	T-555	
ZDT		310	310	276	kPa	T-541	
Color							
Hunter	L	93	93	93	L-a-b	T-527	
	a	-0.8	-0.8	-0.8	L-a-b	T-527	
	b	1.5	1.5	1.5	L-a-b	T-527	

Values are for basestock only; for nominal basis weight including polymer, add 23.4 gsm per 1.0 mil of polymer.

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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