

WestRock

# PolarShield™ Frozen Cup

Need ice cream packaging with sweet features? Come right this way.

Meet WestRock PolarShield™ Frozen Cup. This clay-coated paperboard cupstock features a strong, poly coating that delivers exceptional moisture resistance. It is crafted and designed to meet the unique requirements of ice cream packaging applications. Inherent strength properties enable this paperboard to stand up to the rigor of multiple cold chain freeze-thaw cycles.

## Packaging uses

Retail Ice Cream  
Cups, Tubs, and  
Scrounds  
Foodservice Ice  
Cream Cups

## Product Classification

Polymer-Coated  
Solid Bleached  
Sulfate  
SBS Paperboard

## What You Can Expect from Us

- Moisture Resistance** Poly two-sided coating provides exceptional moisture resistance throughout all freeze-thaw cycles.
- Fade Resistance** Contains no Optical Brightening Agents (OBA), so fading risks are minimized.
- Smooth Printability** A clay-coated base provides a smooth surface to maximize printability and promote high graphic standards.
- Compliance** Meets or exceeds strict global food standards.
- Superior Runnability** You can expect outstanding product uniformity and consistent graphics. Both of which help you optimize productivity and reduce waste.
- Clean Cup Forming** Seams stay clean and tight, while rims are smooth with no cracking or tears.

## 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™ Frozen Cup

Grade Availability by Caliper							Units	Method	
<b>Caliper (pts)</b>	0.014	0.015	0.016	0.017	0.018	0.020	inches	T-411	
<b>Nominal Basis Weight</b>	163	172	182	187	199	212	lbs/3000 sq ft	T-410	
<b>Moisture</b>	6.5	6.5	6.5	6.5	6.5	6.5	percent	T-412	
<b>Internal Bond</b>	75	75	75	75	75	75	.001 ft-lb/sq in	T-569	
<b>ZDT</b>	50	50	50	50	50	50	psi	T-541	
<b>Tear Average</b>	250	260	275	275	285	295	grams	T-414	
<b>Stretch</b>									
<b>L&amp;W</b>	<b>MD</b>	2.0	2.0	2.0	2.0	2.0	2.0	percent	T-494
	<b>CD</b>	4.5	4.5	4.5	4.5	4.5	4.5	percent	T-494
<b>Stiffness</b>									
<b>Taber 15°</b>	<b>MD</b>	125	130	160	175	205	270	gf-cm	T-489
	<b>CD</b>	70	75	90	95	110	150	gf-cm	T-489
<b>Coated Side</b>									
<b>GE Brightness</b>	86	86	86	86	86	86	percent	T-452	
<b>Color</b>									
<b>Hunter</b>	<b>L</b>	93	93	93	93	93	93	L-a-b	T-524
	<b>a</b>	-0.8	-0.8	-0.8	-0.8	-0.8	-0.8	L-a-b	T-524
	<b>b</b>	1.5	1.5	1.5	1.5	1.5	1.5	L-a-b	T-524

Values are for basestock only. A variety of polymer structures and thicknesses are available.

## Grade Availability & Typical Properties (Metric)

Grade Availability by Weight							Units	Method	
<b>Thickness</b>	356	381	406	432	457	508	microns	T-411	
<b>Nominal Basis Weight</b>	265	280	296	304	324	345	gsm	T-410	
<b>Moisture</b>	6.5	6.5	6.5	6.5	6.5	6.5	percent	T-412	
<b>Internal Bond</b>	158	158	158	158	158	158	J/m <sup>2</sup>	T-569	
<b>ZDT</b>	344	344	344	344	344	344	kPa	T-541	
<b>Tear Average</b>	250	260	275	275	285	295	grams	T-414	
<b>Stretch</b>									
<b>L&amp;W</b>	<b>MD</b>	2.0	2.0	2.0	2.0	2.0	2.0	percent	T-494
	<b>CD</b>	4.5	4.5	4.5	4.5	4.5	4.5	percent	T-494
<b>Stiffness</b>									
<b>Taber 15°</b>	<b>MD</b>	12.3	12.7	15.7	17.2	20.1	26.5	mNm	T-489
	<b>CD</b>	6.9	7.4	8.8	9.3	10.8	14.7	mNm	T-489
<b>Coated Side</b>									
<b>GE Brightness</b>	86	86	86	86	86	86	percent	T-452	
<b>Color</b>									
<b>Hunter</b>	<b>L</b>	93	93	93	93	93	93	L-a-b	T-524
	<b>a</b>	-0.8	-0.8	-0.8	-0.8	-0.8	-0.8	L-a-b	T-524
	<b>b</b>	1.5	1.5	1.5	1.5	1.5	1.5	L-a-b	T-524

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Values are subject to change without notice.

For more information, please contact your WestRock representative or visit our website at [westrock.com](http://westrock.com).

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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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