Leading supplier of sustainable papers for packaging solutions



The Power of Less[®]

Our forward-thinking approach to paper

As towns, cities and entire populations evolve, and digital technology continues to revolutionise the way we shop and go about our lives, our needs and expectations have changed.

We demand more from the products we buy and expect them delivered faster to our doors. All whilst reducing our impact on the environment at the same time.

There is a need for a new approach to packaging and strong leadership in our industry.



Our Purpose

Redefining Packaging for a Changing World

Papermaking isn't just something we do. It's at the heart of our entire business model and is central to delivering on our Purpose.

We believe our vision for the packaging industry can play a powerful role in meeting some of the world's complex consumer and sustainability challenges. By innovating and thinking differently we are developing the bespoke strategies and paper products our customers want and the environment needs.



Thinking differently

We take a flexible approach to our papermaking operations. While producing around four million tonnes of finished paper products every year, we are finding innovative ways to help our customers achieve more for less – sell more, reduce costs, manage risk and complexity in their supply chain.



Innovating together

Working with our customers to understand their needs, and with our suppliers to ensure we receive the highest quality of paper for recycling, we innovate to maximise the performance and strength of our packaging papers.



Putting sustainability at our heart

Whether it's ensuring that 100% of the fibre we use comes from recycled or chain of custody certified papers, reducing our carbon footprint, or mitigating our mills' water impact, sustainability is at the heart of our paper production processes.



Developing the right strategies

We focus on supplying our customers with the high-quality finished papers they need for their manufacturing processes. That's why we developed ways of working that ensure our sustainably sourced fibres become the papers needed for high-performance packaging solutions.

Your partner in containerboard and speciality papers

We are a leading manufacturer of sustainable corrugated case materials, speciality papers and high-performance papers for packaging production. All of our finished paper products are 100% recyclable and sustainably sourced.

Our products range from recycled to kraft, including brown liners, white liners, fluting, dual-use, coated grades and speciality papers.

Through our products, experience and knowledge, we are committed to ensuring consistent quality and service to our customers.



The size and scale to manage all your needs

Our paper supply network stretches across 12 European mills and two in North America and produces around 4 million tonnes of containerboard and specialist finished paper products each year.

Although we're proud to have become one of the biggest papermaking operations in the world, we never forget the importance of personal service. So, we take an individual approach to account management and each of our regions employs a dedicated commercial manager who will personally deal with your enquiries.



Paper that's good for your sustainability goals

Today's customers, employees, investors and shareholders all expect you to adopt a more sustainable approach. When you purchase our products, you can be certain they come from sustainably sourced or chain of custody certified sources.

Sustainability is at the heart of our papermaking and we work in partnership with you to select the right finished papers for packaging solutions that your business demands – whilst improving your environmental credentials at the same time.

Our Now and Next Sustainability Strategy focuses on closing the loop through better design, protecting natural resources by making the most of every fibre, reducing waste and pollution through circular solutions and equipping people to lead the transition to a circular economy.



Leading the way in quality

We are proud to be recognised for the high quality of our finished product.

Our focus on quality runs throughout all the key stages of the papermaking process, from raw materials to the finished product, providing our customers with the quality assurance they need.

Although most of our mills have an automated paper testing laboratory, all our mills are required to send regular samples into an independent, certified Paper Quality Centre based in Witzenhausen, Germany.

Our paper mills get regularly audited by independent assessors, who inspect all aspects of our management systems and papermaking.



Inventing, re-imagining and redefining to deliver the Circular Economy

From the way we make our paper to how we transport it to your doorstep, we have a track record of innovation and leadership in our industry.

We are already delivering new, smarter ways of working that improve our quality, service and sustainability credentials. We are increasing capacity and capabilities in our paper mills to not only produce more volume but lighter weight papers to respond to changing retail and e-commerce packaging requirements. Through all of our processes our designers and innovators are relentlessly pursuing every new opportunity to create circular solutions designed to eliminate waste and pollution, circulate products and materials, and regenerate nature.

- At our Kemlsey Mill, we have invested in a state-of-the-art laboratory to enhance the performance and sustainability qualities of our paper, including coatings, wet-end chemistries, surface chemistries, repulpability, and recyclability.
- By thinking differently about our Supply Chain Services, we are developing the right strategies to cut lead times, improve quality, assure supply and make us a more reliable supplier. All while reducing the impact of transport on our environment.
- We're already utilising digital technology in our mills to help us reduce power consumption, reduce contamination in raw materials, reduce fibre consumption, increase quality and more.

Technical Customer Services

We set the bar high in all aspects of our service.

Our Technical Customer Service team is on hand to work with you in support of your requirements. Through our support, technical know-how and deep understanding of our paper performance, we are improving productivity, reducing costs and ensuring that you meet your commercial and sustainability challenges.



Our containerboard products

We offer you one of the widest choices of containerboard products available. All designed and manufactured to meet today's sustainability challenges and provide the ideal material to satisfy your and your customers' needs.

On the following pages you will find details of our range, including grades and availability.



Product Range

Family Grade	Grade	Page
	Liner 1	14-16
Brown Liners	Liner 2	17
	Liner 3	18-19
Kraftliners	Brown Kraftliner	21
Kiaitiineis	Brown Top Kraftliner	22
	White Liner A	24-25
White Liners	White Liner B	26-27
	White Liner C	28-29
	Top Double Coated	31
Coated Papers	Double Coated	32
	Double Coated Economic	33
	Medium Plus	35
Medium/Fluting Grades	Medium HP Plus	36-37
	Medium HP WS	38-39
Dual-Use Grades	Dual-Use	41-42
	Dual-Use HP Plus	43



Key to Applications



Brown Liners

Made from 100% recycled fibre, our brown liners have exceptional attributes such as high mechanical properties, high printability performance, good runnability on the corrugator and optimum levels of colour stability.

Grades available

- Liner 1
- Liner 2
- Liner 3



Liner 1 is produced in Lucca, Zărnești, Alcolea and Dueñas mills. We can offer you three slightly different variations of Liner 1.

Characteristics

- FSC[®] certified
- Made from 100% recycled fibres
- Offers a great balance between cost and strength properties
- Excellent runnability, resistance and homogenous appearance
- Designed for challenging mechanical and environmental applications

Key Applications



Typical Values	Typical is what a customer can expect to receive on a customer reel average
Guaranteed values	Guaranteed is a min/max value of a property on a customer reel average
Test conditions	50% RH and 23°C
Issue date	September 2023
CEPI Code	10/12

Alternative grammages, not listed, may be available – please contact our sales team for more information.

Liner 1 produced in Lucca and Zărnești

Typical values							
Property	Unit	Method					
Grammage	g/m²	ISO 536	120	135	145	170	200
Burst strength	kPa	ISO 2758	360	410	425	510	580
SCT CD	kN/m	ISO 9895	2.35	2.65	2.85	3.30	3.85
Guaranteed values							
Property	Unit	Method					
Grammage	g/m²	ISO 536	120	135	145	170	200
Grammage average, min/max	%	ISO 536	±3	±3	±3	±3	±3
Moisture average	%	Online	8.0 ±1	8.0 ±1	8.0 ±1	8.0 ±1	8.0 ±1
Duvet etven eth min	LD-	150 3750		270	205	465	530
Burst strength, min	kPa	ISO 2758	325	370	395	105	220
SCT CD, min	kPa kN/m	ISO 2758 ISO 9895	325 2.15	370 2.40	2.60	3.00	3.50
3							



Liner 1 is produced in Lucca, Zărnești, Alcolea and Dueñas mills. We can offer you three slightly different variations of Liner 1.

Characteristics

- FSC[®] certified
- Made from 100% recycled fibres
- Offers a great balance between cost and strength properties
- Excellent runnability, resistance and homogenous appearance
- Designed for challenging mechanical and environmental applications

Key Applications



Typical Values	Typical is what a customer can expect to receive on a customer reel average
Guaranteed values	Guaranteed is a min/max value of a property on a customer reel average
Test conditions	50% RH and 23°C
Issue date	September 2023
CEPI Code	12

Alternative grammages, not listed, may be available – please contact our sales team for more information.

Liner 1 produced in Alcolea

Typical values								
Property	Unit	Method						
Grammage	g/m²	ISO 536	170	180	200	220	250	275
Burst strength	kPa	ISO 2758	510	540	600	660	750	825
SCT CD	kN/m	ISO 9895	3.75	3.95	4.40	4.80	5.50	6.05
Guaranteed values								
Property	Unit	Method						
Grammage	g/m²	ISO 536	170	180	200	220	250	275
Grammage average, min/max	%	ISO 536	±3	±3	±3	±3	±3	±3
Moisture average	%	Online	8.5 ±1.5	8.5 ± 1.5	8.5 ± 1.5	8.5 ± 1.5	8.5 ± 1.5	8.5 ±1.5
Burst strength, min	kPa	ISO 2758	440	470	520	570	650	715
SCT CD, min	kN/m	ISO 9895	3.30	3.50	3.90	4.30	4.90	5.36
Cobb 1800s, max	g/m²	ISO 535	150	150	150	150	150	150



Liner 1 High Performance

Liner 1 is produced in Lucca, Zărnești, Alcolea and Dueñas mills. We can offer you three slightly different variations of Liner 1.

Characteristics

- FSC[®] certified
- Made from 100% recycled fibres
- Offers a great balance between cost and strength properties
- Excellent runnability, resistance and homogenous appearance
- Designed for challenging mechanical and environmental applications

Key Applications



Typical Values	Typical is what a customer can expect to receive on a customer reel average
Guaranteed values	Guaranteed is a min/max value of a property on a customer reel average
Test conditions	50% RH and 23°C
Issue date	September 2023
CEPI Code	89

Alternative grammages, not listed, may be available – please contact our sales team for more information.

Liner 1 HP produced in Dueñas

Typical values									
Property	Unit	Method							
Grammage	g/m²	ISO 536	115	120	125	135	150	165	195
Burst strength	kPa	ISO 2758	368	384	410	432	480	528	585
SCT CD	kN/m	ISO 9895	2.50	2.65	2.80	3.00	3.30	3.60	4.30
Guaranteed values									
Property	Unit	Method							
Grammage	g/m²	ISO 536	115	120	125	135	150	165	195
Grammage average, min/max	%	ISO 536	±4	±4	±4	±4	±4	±4	<u>±</u> 4
Moisture average	%	Online	8.5 ±1.5	8.5 ±1.5	8.5 ± 1.5	8.5 ±1.5	8.5 ±1.5	8.5 ±1.5	8.5 ±1.5
Burst strength, min	kPa	ISO 2758	322	335	350	378	420	462	507
SCT CD, min	kN/m	ISO 9895	2.25	2.30	2.40	2.60	2.90	3.20	3.80
Cobb 1800s, max (if applicable)	g/ m²	ISO 535	-	-	-	-	-	130	130



Liner 2 is produced in Aschaffenburg, Belišće, Witzenhausen and Zărnești mills.

Characteristics

- FSC[®] certified
- Made from 100% recycled fibres
- Offers a great balance between cost and strength properties
- Excellent runnability

Key Applications



Typical Values	Typical is what a customer can expect to receive on a customer reel average
Guaranteed values	Guaranteed is a min/max value of a property on a customer reel average
Test conditions	50% RH and 23°C
Issue date	September 2023
CEPI Code	20/22

Alternative grammages, not listed, may be available – please contact our sales team for more information.

Liner 2 produced in Aschaffenburg, Belišće, Witzenhausen and Zărnești

Typical values					
Property	Unit	Method			
Grammage	g/m²	ISO 536	115	125	140
Burst strength	kPa	ISO 2758	270	290	330
SCT CD	kN/m	ISO 9895	2.15	2.35	2.60
Guaranteed values					
Property	Unit	Method			
Grammage	g/m²	ISO 536	115	125	140
Grammage average, min/max	%	ISO 536	±3	±3	±3
Moisture average	%	Online	8.0 ±1	8.0 ±1	8.0 ±1
Burst strength, min	kPa	ISO 2758	240	260	300
SCT CD, min	kN/m	ISO 9895	1.95	2.15	2.40
Cobb 60s, max	g/m²	ISO 535	45	45	45



Liner 3 is produced in Aschaffenburg, Belišće, Kemsley, Lucca, Rouen, Witzenhausen, Zărnești and Dueñas. We can offer you two slightly different variations of Liner 3.

Characteristics

- FSC[®] certified
- Made from 100% recycled fibres
- A very consistent appearance and stable properties ensuring corrugated board strength
- Excellent runnability on the corrugator with high production efficiency

Key Applications



Typical Values	Typical is what a customer can expect to receive on a customer reel average
Guaranteed values	Guaranteed is a min/max value of a property on a customer reel average
Test conditions	50% RH and 23°C
Issue date	September 2023
CEPI Code	30/32

Alternative grammages, not listed, may be available – please contact our sales team for more information.

Typical values Light Liner Property Unit Method ISO 536 90 100 110 Grammage g/m² 115 120 130 150 160 165 190 210 Burst strength kPa ISO 2758 200 220 250 270 285 310 350 365 375 420 460 SCT CD ISO 9895 1.55 1.90 2.00 2.50 2.65 2.75 3.50 kN/m 1.70 2.10 2.25 3.10 Guaranteed values Unit Method Property Grammage g/m² ISO 536 90 100 110 115 120 130 150 160 165 190 210 % ±3 ±3 ±3 ±3 ±3 ±3 ±3 Grammage average, min/max ISO 536 ±3 ±3 ±З ±3 Moisture average* % Online 8.0 ±1 8.0 ±1 8.0 ±1 8.0 ±1 8.0 ±1 8.0 ±1 8.0 ±1 8.0 ±1 8.0 ±1 8.0 ±1 8.0 ±1 Burst strength, min kPa ISO 2758 180 200 220 230 240 260 300 320 330 370 425 SCT CD, min kN/m ISO 9895 1.40 1.55 1.70 1.75 1.85 2.00 2.30 2.45 2.55 2.85 3,25 Cobb 60s, max** q/m^2 ISO 535 45 45 45 45 45 45 45 45 45 45 45 g/m² 110 110 110 110 Cobb 1800s, max (if applicable) ISO 535

Liner 3 produced in Aschaffenburg, Belišće, Kemsley, Lucca, Rouen, Witzenhausen and Zărnești



Liner 3 is produced in Aschaffenburg, Belišće, Kemsley, Lucca, Witzenhausen, Zărnești and Dueñas. We can offer you two slightly different variations of

Liner 3.

Characteristics

- FSC[®] certified
- Made from 100% recycled fibres
- A very consistent appearance and stable properties ensuring corrugated board strength
- Excellent runnability on the corrugator with high production efficiency

Key Applications



Typical Values	Typical is what a customer can expect to receive on a customer reel average
Guaranteed values	Guaranteed is a min/max value of a property on a customer reel average
Test conditions	50% RH and 23°C
Issue date	September 2023
CEPI Code	30

Alternative grammages, not listed, may be available – please contact our sales team for more information.

Liner 3 produced in Dueñas

Typical values									
Property	Unit	Method							
Grammage	g/m²	ISO 536	110	120	130	140	150	160	170
Burst strength	kPa	ISO 2758	268	290	310	340	360	385	405
SCT CD	kN/m	ISO 9895	1.72	1.85	2.00	2.15	2.30	2.45	2.70
Guaranteed values									
Property	Unit	Method							
Grammage	g/m²	ISO 536	110	120	130	140	150	160	170
Grammage average, min/max	%	ISO 536	±3	±3	±3	±Β	±3	±3	±3
Moisture average	%	Online	7.5 ±1.5	7.5 ±1.5	7.5 ±1.5	7.5 ±1.5	7.5 ±1.5	7.5 ±1.5	7.5 ±1.5
Burst strength, min	kPa	ISO 2758	240	260	280	300	325	345	360
SCT CD, min	kN/m	ISO 9895	1.55	1.65	1.80	1.95	2.10	2.25	2.40
Wax Pick (Dennison), min	#	T-549	14	14	14	14	14	14	14
Cobb 60s, max	g/m²	ISO 535	35	35	35	35	35	35	35



Kraftliners

Made from predominantly sustainably sourced virgin fibre, our Kraft liners are boasting excellent resistance to tearing, moisture, stress, and punching.

Grades available

- Brown Kraftliner
- Brown Top Kraftliner



Brown Kraftliner

Brown Kraftliner is produced in Viana mill.

Characteristics

- FSC[®] certified
- Made from sustainably sourced virgin and recycled fibres
- Excellent resistance to tearing, moisture, stress, and punching
- Great runnability achieving high production efficiency
- High compression strength retention over time so it's great for use in moist environments

Key Appli	cations
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Alternative grammages, not listed, may be available – please contact our sales team for more information.

Typical values											
Property	Unit	Method									
Grammage	g/m²	ISO 536	115	125	135	160	170	186	200	225	275
Burst strength	kPa	ISO 2759	535	570	625	720	760	860	910	970	1130
SCT CD	kN/m	ISO 9895	2.30	2.55	2.75	3.30	3.50	3.85	4.10	4.60	5.80
Wax Pick (Dennison)	#	TAPPI T-459	18	18	18	18	18	18	18	18	18
Cobb 60s	g/m2	ISO 535	26	26	26	26	26	26	26	26	26
Scott Bond	J/m2	TAPPI T-569	320	320	320	320	320	300	300	280	280

Guaranteed values

Property	Unit	Method									
Grammage	g/m²	ISO 536	115	125	135	160	170	186	200	225	275
Grammage average, min/max	%	ISO 536	±3	±3	±3	±3	±3	±3	±3	±3	±3
Moisture average	%	Online	8.0 ±1	8.0 ±1	8.0 ±1	8.0 ±1	8.0 ±1	8.0 ±1	8.0 +1.5/-1	8.0 +1.5/-1	8.0 +1.5/-1
Burst strength, min	kPa	ISO 2759	430	480	520	605	640	710	730	830	920
SCT CD, min	kN/m	ISO 9895	2.00	2.20	2.40	2.85	3.00	3.30	3.55	3.95	4.90
Scott Bond, min	J/m²	TAPPI T-569	220	220	220	220	220	220	220	220	220
Wax Pick (Dennison), min	#	TAPPI T-459	16	16	16	16	16	16	16	16	16
Cobb 60s, max	g/m²	ISO 535	32	32	32	32	32	32	32	32	32

Brown Top Kraftliner

Brown Top Kraftliner is produced in Viana mill.

Characteristics

- FSC[®] certified
- Made from sustainably sourced virgin and recycled fibres
- Great runnability producing savings in terms of speed, fewer stoppages and losses
- High compression strength retention over time so it's great for use in moist environments

Key Applications



Typical Values	Typical is what a customer can expect to receive on a customer reel average
Guaranteed values	Guaranteed is a min/max value of a property on a customer reel average
Test conditions	50% RH and 23°C
Issue date	September 2023
CEPI Code	90

Alternative grammages, not listed, may be available – please contact our sales team for more information.

Typical values					
Property	Unit	Method			
Grammage	g/m²	ISO 536	115	140	165
Burst strength	kPa	ISO 2759	360	440	520
SCT CD	kN/m	ISO 9895	2.10	2.50	3.10
Scott bond	J/m²	TAPPI T-569	260	240	240
Wax pick (Dennison)	#	TAPPI T-459	18	18	18
Cobb 60 s	g/m²	ISO 535	26	26	26

Guaranteed values

Property	Unit	Method			
Grammage	g/m²	ISO 536	115	140	165
Grammage average, min/max	%	ISO 536	±3	±3	±3
Moisture average	%	Online	8.0 ±1	8.0 ±1	8.0 ±1
Burst strength, min	kPa	ISO 2759	325	400	470
SCT CD, min	kN/m	ISO 9895	1.60	1.95	2.40
Scott Bond, min	J/m²	TAPPI T-569	200	200	200
Wax Pick (Dennison), min	#	TAPPI T-459	16	16	16
Cobb 60s, max	g/m²	ISO 535	32	32	32

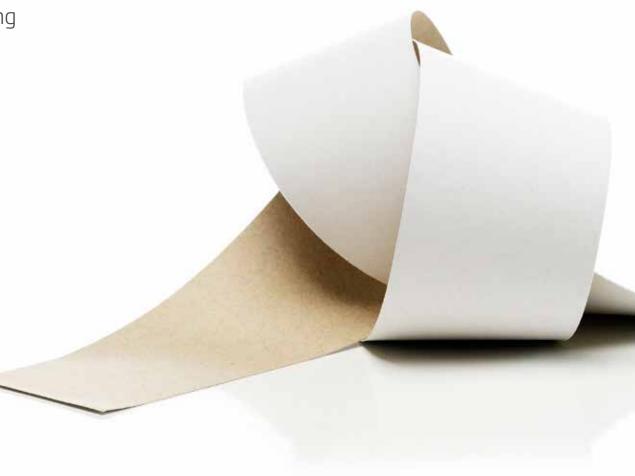


White Liners

Made from recycled fibre, our White Liners are smooth and world-class clean. They are ideal for packaging solutions with the high printing performance requirements of any modern conversion line.

Grades available

- White Liner A
- White Liner B
- White Liner C



White Liner A

White Liner A is produced in Kemsley and Dueñas mills. We can offer you two slightly different variations of White Liner A.

White Liner A produced in Kemsley

Typical values				
Property	Unit	Method		
Grammage	g/m²	ISO 536	130	160
Burst strength	kPa	ISO 2758	310	360
SCT CD	kN/m	ISO 9895	2.25	2.75

Guaranteed values

Property	Unit	Method		
Grammage	g/m²	ISO 536	130	160
Grammage average, min/max	%	ISO 536	±3	±3
Moisture average	%	Online	8.0 ±1	8.0 ±1
Burst strength, min	kPa	ISO 2758	270	335
SCT CD, min	kN/m	ISO 9895	2.10	2.55
Plybond, min	J/m²	TAPPI T-569	200	200
Cobb 60s, max	g/m²	ISO 535	40	40
Cobb 1800s, max (if applicable)	g/m²	ISO 535	100	100
Brightness, min	%	ISO 2470-2	76	76
Roughness, Bendtsen, max	ml/min	ISO 8791-2	300	400

Characteristics

- FSC[®] certified
- Made from 100% recycled fibres
- High brightness, great properties, and optimized smoothness
- A superior presentation liner with excellent printing quality and good strength for your boxes

Key Applications



Typical Values	Typical is what a customer can expect to receive on a customer reel average
Guaranteed values	Guaranteed is a min/max value of a property on a customer reel average
Test conditions	50% RH and 23°C
Issue date	September 2023
CEPI Code	70

Alternative grammages, not listed, may be available – please contact our sales team for more information.



White Liner A

White Liner A is produced in Kemsley and Dueñas mills. We can offer you two slightly different variations of White Liner A.

Characteristics

- FSC[®] certified
- Made from 100% recycled fibres
- High brightness, great properties, and optimized smoothness
- A superior presentation liner with excellent printing quality and good strength for your boxes

Key Applications



Typical Values	Typical is what a customer can expect to receive on a customer reel average
Guaranteed values	Guaranteed is a min/max value of a property on a customer reel average
Test conditions	50% RH and 23°C
Issue date	September 2023
CEPI Code	70

Alternative grammages, not listed, may be available – please contact our sales team for more information.

White Liner A produced in Dueñas

Typical values						
Property	Unit	Method				
Grammage	g/m²	ISO 536	135	140	160	180
Burst strength	kPa	ISO 2758	340	355	410	430
SCT CD	kN/m	ISO 9895	2.45	2.55	2.90	3.25
E.B.A.	ppm	T-437	50	50	50	50

Guaranteed values

Property	Unit	Method				
Grammage	g/m²	ISO 536	135	140	160	180
Grammage average, min/max	%	ISO 536	±3	±3	±3	±3
Moisture average	%	Online	7.0 +1.5/-1	7.0 +1.5/-1	7.0 +1.5/-1	7.0 +1.5/-1
Burst strength, min	kPa	ISO 2758	310	320	365	390
SCT CD, min	kN/m	ISO 9895	2.25	2.30	2.65	2.95
Wax Pick (Dennison), min	#	T-549	14	14	14	14
Cobb 60s, max	g/m²	ISO 535	35	35	35	35
Roughness, Bendtsen, max	ml/min	ISO 8791-2	600	600	600	600
ISO Brightness - R457	%	ISO 2470-1	74	74	74	74
E.B.A., max	ppm	T-437	100	100	100	100



White Liner B

White Liner B is produced in Kemsley and Dueñas mills. We can offer you two slightly different variations of White Liner B.

White Liner B produced in Kemsley

Typical values				
Property	Unit	Method		
Grammage	g/m²	ISO 536	120	135
Burst strength	kPa	ISO 2758	270	300
SCT CD	kN/m	ISO 9895	1.95	2.20

Guaranteed values

Property	Unit	Method		
Grammage	g/m²	ISO 536	120	135
Grammage average, min/max	%	ISO 536	±3	±3
Moisture average	%	Online	8.0 ±1	8.0 ±1
Burst strength, min	kPa	ISO 2758	230	260
SCT CD, min	kN/m	ISO 9895	1.70	1.95
Plybond, min	J/m²	TAPPI T-569	200	200
Cobb 60s, max	g/m²	ISO 535	40	40
Brightness, min	%	ISO 2470-2	70	70
Roughness, Bendtsen, max	ml/min	ISO 8791-2	600	600

Characteristics

- FSC[®] certified
- Made from 100% recycled fibres
- Presentation liner with excellent printing quality
- Optimum combination of print and strength characteristics to allow product optimisation

Key Applications



Typical Values	Typical is what a customer can expect to receive on a customer reel average
Guaranteed values	Guaranteed is a min/max value of a property on a customer reel average
Test conditions	50% RH and 23°C
Issue date	September 2023
CEPI Code	71

Alternative grammages, not listed, may be available – please contact our sales team for more information.



White Liner B

White Liner B is produced in Kemsley and Dueñas mills. We can offer you two slightly different variations of White Liner B.

Characteristics

- FSC[®] certified
- Made from 100% recycled fibres
- Presentation liner with excellent printing quality
- Optimum combination of print and strength characteristics to allow product optimisation

Key Applications



Typical Values	Typical is what a customer can expect to receive on a customer reel average
Guaranteed values	Guaranteed is a min/max value of a property on a customer reel average
Test conditions	50% RH and 23°C
Issue date	September 2023
CEPI Code	71

Alternative grammages, not listed, may be available – please contact our sales team for more information.

White Liner B produced in Dueñas

Typical values								
Property	Unit	Method						
Grammage	g/m²	ISO 536	120	125	130	135	140	160
Burst strength	kPa	ISO 2758	245	260	270	280	295	330
SCT CD	kN/m	ISO 9895	1.85	1.90	1.97	2.05	2.15	2.45

Guaranteed values

Property	Unit	Method						
Grammage	g/m²	ISO 536	120	125	130	135	140	160
Grammage average, min/max	%	ISO 536	±3	±3	±3	±3	±3	±3
Moisture average	%	Online	7.0 +1.5/-1	7.0 +1.5/-1	7.0 +1.5/-1	7.0 +1.5/-1	7.0 +1.5/-1	7.0 +1.5/-1
Burst strength, min	kPa	ISO 2758	220	230	240	250	260	295
SCT CD, min	kN/m	ISO 9895	1.70	1.75	1.82	1.90	1.95	2.25
Wax Pick (Dennison), min	#	T-549	13	13	13	13	13	13
Cobb 60s, max	g/m²	ISO 535	35	35	35	35	35	35
Roughness, Bendtsen, max	ml/min	ISO 8791-2	600	600	600	600	600	600
ISO Brightness - R457, min	%	ISO 2470-1	70	70	70	70	70	70
E.B.A., max	ppm	T-437	300	300	300	300	300	300



White Liner C

White Liner C is produced in Lucca and Dueñas mills. We can offer you two slightly different variations of White Liner C.

Characteristics

- FSC[®] certified
- Made from 100% recycled fibres
- Presentation liner with good printing quality

Key Applications



Typical Values	Typical is what a customer can expect to receive on a customer reel average
Guaranteed values	Guaranteed is a min/max value of a property on a customer reel average
Test conditions	50% RH and 23°C
Issue date	September 2023
CEPI Code	72

Alternative grammages, not listed, may be available – please contact our sales team for more information.



White Liner C produced in Lucca

Typical values						
Property	Unit	Method				
Grammage	g/m²	ISO 536	120	125	135	150
Burst strength	kPa	ISO 2758	230	235	255	275
SCT CD	kN/m	ISO 9895	1.75	1.80	1.95	2.15

Guaranteed values

Property	Unit	Method				
Grammage	g/m²	ISO 536	120	125	135	150
Grammage average, min/max	%	ISO 536	±3	±3	±3	±3
Moisture average	%	Online	8.0 ±1	8.0 ±1	8.0 ±1	8.0 ±1
Burst strength, min	kPa	ISO 2758	210	220	235	255
SCT CD, min	kN/m	ISO 9895	1.60	1.65	1.75	1.90
Plybond, min	J/m ²	TAPPI T-569	200	200	200	200
Cobb 60s, max (if applicable)	g/m²	ISO 535	40	40	40	40
Brightness, min	%	ISO 2470-1	64	64	64	64
Roughness, Bendtsen, max	ml/min	ISO 8791-2	600	600	600	600

White Liner C

White Liner C is produced in Lucca and Dueñas mills. We can offer you two slightly different variations of White Liner C.

Characteristics

- FSC[®] certified
- Made from 100% recycled fibres
- Presentation liner with good printing quality

Key Applications



Typical Values	Typical is what a customer can expect to receive on a customer reel average
Guaranteed values	Guaranteed is a min/max value of a property on a customer reel average
Test conditions	50% RH and 23°C
Issue date	September 2023
CEPI Code	72

Alternative grammages, not listed, may be available please contact our sales team for more information.



White Liner C produced in Dueñas

Typical values					
Property	Unit	Method			
Grammage	g/m²	ISO 536	115	120	125
Burst strength	kPa	ISO 2758	185	190	200
SCT CD	kN/m	ISO 9895	1.40	1.45	1.50

Guaranteed values

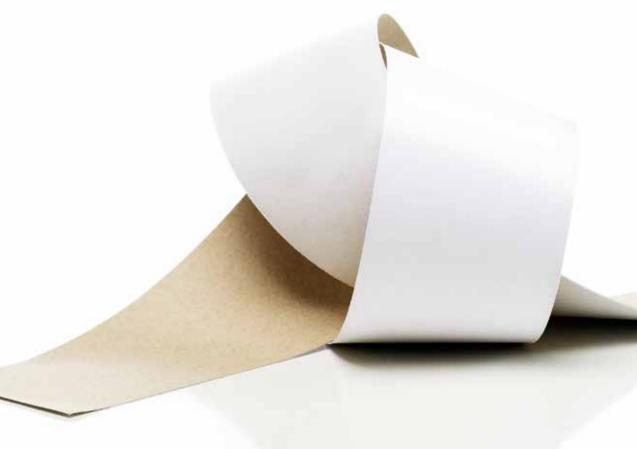
Property	Unit	Method			
Grammage	g/m²	ISO 536	115	120	125
Grammage average, min/max	%	ISO 536	±3	±3	±3
Moisture average	%	Online	7.0 +1.5/-1	7.0 +1.5/-1	7.0 +1.5/-1
Burst strength, min	kPa	ISO 2758	170	175	180
SCT CD, min	kN/m	ISO 9895	1.20	1.25	1.30
Wax Pick (Dennison), min	#	T-549	10	10	10
Cobb 60s, max	g/m²	ISO 535	35	35	35
ISO Brightness - R457	%	ISO 2470-1	62	62	62
E.B.A., max	ppm	T-437	500	500	500

Coated Papers

Made from recycled fibre, our Coated Papers are specially-designed to reduce trapping and optimise dot gain. Ideal for packaging with the high-quality print requirements.

Grades available

- Top Double Coated
- Double Coated
- Double Coated Economic



Top Double Coated

Top Double Coated is produced in Dueñas mill.

Typical values						
Property	Unit	Method				
Grammage	g/m²	ISO 536	140	150	160	180
Rurststrongth	strength kPa	ISO 2758	295	315	335	380
buiststiengtn		ISO 2759	340	360	380	424
SCT CD	kN/m	ISO 9895	2.65	2.85	3.05	3.40
Scott Bond	J/m²	T-569	320	320	320	320
Cobb 1800s	g/m²	ISO 535	80	80	80	80
Coated weight	g/m²	ITR-201-55	20	20	20	20
Roughness, PPS	um	ISO 8791-4	1.7	1.7	1.7	2.1
ICO Drichtmann D457	07	ISO 2470-1	85	85	85	85
ISO Brightness - R457	%	ISO 2470-2	89	89	89	89
Gloss	0	ISO 8254-1	50	50	50	50
E.B.A.	ppm	T-437	З	З	З	З

Guaranteed values

Property	Unit	Method				
Grammage	g/m²	ISO 536	140	150	160	180
Grammage average, min/max	%	ISO 536	±3	±Β	±Β	±3
Moisture average	%	Online	7.5 ±1	7.5 ±1	7.5 ±1	7.5 ±1
Burst strength, min	kPa	ISO 2758	240	260	285	335
SCT CD, min	kN/m	ISO 9895	2.40	2.55	2.70	3.05
Scott Bond, min	J/m²	T-569	280	280	280	280
Cobb 1800s, max	g/m²	ISO 535	110	110	110	110
Roughness, PPS, max	um	ISO 8791-4	2.4	2.4	2.4	2.8
ISO Brightness - R457, min	%	ISO 2470-1	82	82	82	82
E.B.A., max	ppm	T-437	10	10	10	10

Characteristics

- FSC[®] certified
- Made from 100% recycled fibres
- Designed to reduce trapping and optimise dot gain
- Premium appearance in terms of neatness, brightness and whiteness
- Great mechanical quality in the folding process

Key Applications

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Typical Values	Typical is what a customer can expect to receive on a customer reel average
Guaranteed values	Guaranteed is a min/max value of a property on a customer reel average
Test conditions	50% RH and 23°C
Issue date	September 2023
CEPI Code	77

Alternative grammages, not listed, may be available – please contact our sales team for more information.



Double Coated

Double Coated is produced in Dueñas mill.

Typical values						
Property	Unit	Method				
Grammage	g/m²	ISO 536	140	150	160	180
Burst strength	kPa	ISO 2758	270	295	320	360
buiststiengti	KF d	ISO 2759	315	340	365	410
SCT CD	kN/m	ISO 9895	2.50	2.70	2.90	3.25
Scott Bond	J/m²	T-569	280	280	280	280
Cobb 60s	g/m²	ISO 535	35	35	35	35
Coated weight	g/m²	ITR-201-55	20	20	20	20
Roughness, PPS	um	ISO 8791-4	1.7	1.7	1.7	2.1
ICO Driebtenee D457	07	ISO 2470-1	85	85	85	85
ISO Brightness - R457	%	ISO 2470-2	89	89	89	89
Gloss	0	ISO 8254-1	50	50	50	50
E.B.A.	ppm	T-437	З	З	З	З

Guaranteed values

Property	Unit	Method				
Grammage	g/m²	ISO 536	140	150	160	180
Grammage average, min/max	%	ISO 536	±Β	±3	±Β	±3
Moisture average	%	Online	7.5 ±1	7.5 ±1	7.5 ±1	7.5 ±1
Burst strength, min	kPa	ISO 2758	230	253	275	310
SCT CD, min	kN/m	ISO 9895	2.25	2.37	2.50	2.90
Scott Bond, min	J/m²	T-569	240	240	240	240
Cobb 60s, max	g/m²	ISO 535	50	50	50	50
Roughness, PPS max	um	ISO 8791-4	2.4	2.4	2.4	2.8
ISO Brightness - R457, min	%	ISO 2470-1	82	82	82	82
E.B.A., max	ppm	T-437	10	10	10	10

Characteristics

- FSC[®] certified
- Made from 100% recycled fibres
- Designed to reduce trapping and optimise dot gain
- Optimum quality for neatness, brightness and whiteness
- Great mechanical qualities

Key Applications

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Typical Values	Typical is what a customer can expect to receive on a customer reel average
Guaranteed values	Guaranteed is a min/max value of a property on a customer reel average
Test conditions	50% RH and 23°C
Issue date	September 2023
CEPI Code	77

Alternative grammages, not listed, may be available – please contact our sales team for more information.



Coated Pa

Medium / Fluting

33

Double Coated Economic

Double Coated Economic is produced in Dueñas mill.

Typical values							
Property	Unit	Method					
Grammage	g/m²	ISO 536	130	140	150	160	180
Burst strength	kPa	ISO 2758	220	240	270	300	320
Duiststiengtri	KF d	ISO 2759	265	285	300	345	365
SCT CD	kN/m	ISO 9895	2.25	2.40	2.45	2.70	3.05
Scott Bond	J/m²	T-569	280	280	280	280	280
Cobb 60s	g/m²	ISO 535	35	35	35	35	35
Coated weight	g/m²	ITR-201-55	18	18	18	18	18
Roughness, PPS	um	ISO 8791-4	2.0	2.0	2.0	2.0	2.2
ICO Drichtmann D457	%	ISO 2470-1	80	80	80	80	80
ISO Brightness - R457	90	ISO 2470-2	83	83	83	83	83
Gloss	0	ISO 8254-1	44	44	44	44	44
E.B.A.	ppm	T-437	З	З	З	З	З

Guaranteed values

Property	Unit	Method					
Grammage	g/m²	ISO 536	130	140	150	160	180
Grammage average, min/max	%	ISO 536	±Β	±3	±Β	±3	±3
Moisture average	%	Online	7.5 ±1	7.5 ±1	7.5 ±1	7.5 ±1	7.5 ±1
Burst strength, min	kPa	ISO 2758	200	215	250	265	290
SCT CD, min	kN/m	ISO 9895	1.95	2.10	2.15	2.40	2.70
Scott Bond, min	J/m²	T-569	240	240	240	240	240
Cobb 60s, max	g/m²	ISO 535	50	50	50	50	50
Roughness, PPS, max	um	ISO 8791-4	2.5	2.5	2.5	2.5	2.9
ISO Brightness - R457, min	%	ISO 2470-1	77	77	77	77	77
E.B.A., max	ppm	T-437	10	10	10	10	10

Characteristics

- FSC[®] certified
- Made from 100% recycled fibres
- Cost-effective solution with great printing capabilities
- Great mechanical qualities

Key Applications



Typical Values	Typical is what a customer can expect to receive on a customer reel average
Guaranteed values	Guaranteed is a min/max value of a property on a customer reel average
Test conditions	50% RH and 23°C
Issue date	September 2023
CEPI Code	78

Alternative grammages, not listed, may be available – please contact our sales team for more information.

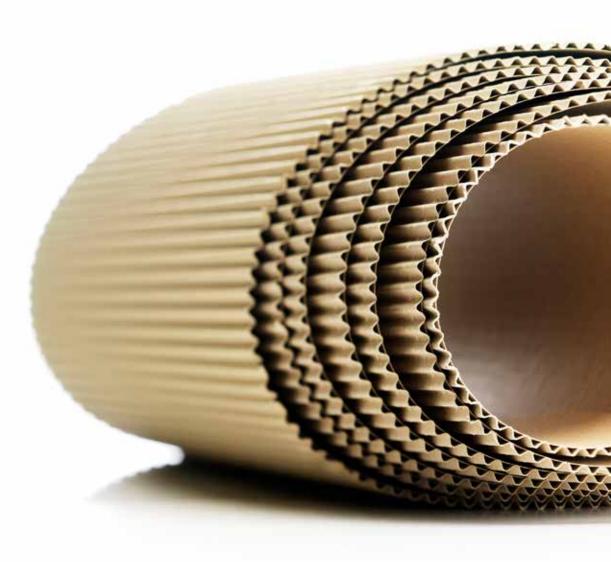


Medium / Fluting

We offer a wide range of Medium / Fluting grades, from light to high-performance to suit every application. Made from 100% recycled fibre, they are great at handling high speed converting in a robust manner.

Grades available

- Medium Plus
- Medium HP Plus
- Medium HP WS



Medium Plus

Medium Plus is produced in Aschaffenburg, Belišće, Kemsley, Rouen, Witzenhausen, Zărnești and Lucca mills.

Characteristics

- FSC[®] certified
- Made from 100% recycled fibres
- A very stable product with excellent runnability on the corrugator
- Highly competitive with higher characteristics than standard

Key Applications



Typical Values	Typical is what a customer can expect to receive on a customer reel average
Guaranteed values	Guaranteed is a min/max value of a property on a customer reel average
Test conditions	50% RH and 23°C
Issue date	September 2023
CEPI Code	41/60

Alternative grammages, not listed, may be available – please contact our sales team for more information.

Typical values			Light Me	dium Plus					
Property	Unit	Method							
Grammage	g/m²	ISO 536	85	90	100	110	120	130	140
SCT CD	kN/m	ISO 9895	1.60	1.65	1.85	2.05	2.20	2.35	2.55
CMT 30	Ν	ISO 7263	-	-	165	180	205	220	235
Guaranteed values									
Property	Unit	Method							
Property Grammage	Unit g/m²	Method ISO 536	85	90	100	110	120	130	140
			85 ±3	90 ±3	100 ±3	110 ±3	120 ±3	130 ±3	140 ±3
Grammage	g/m²	ISO 536							
Grammage Grammage average, min/max	g/m² %	ISO 536 ISO 536	±3	±3	±3	±3	±3	±3	±3



Medium High Performance Plus

Medium HP Plus is produced in Aschaffenburg, Belišće, Kemsley, Lucca, Rouen, Witzenhausen, Zărnești and Alcolea mills. We can offer you two slightly different variations of Medium HP Plus.

Characteristics

- FSC[®] certified
- Made from 100% recycled fibres with performance additives to ensure very high strength properties
- A good alternative to Semi-Chemical fluting
- Good runnability and bonding

Key Applications



Typical Values	Typical is what a customer can expect to receive on a customer reel average
Guaranteed values	Guaranteed is a min/max value of a property on a customer reel average
Test conditions	50% RH and 23°C
Issue date	September 2023
CEPI Code	44

Alternative grammages, not listed, may be available – please contact our sales team for more information.

Medium HP Plus produced in Aschaffenburg, Belišće, Kemsley, Lucca, Rouen, Witzenhausen and Zărnești

Typical values											
Property	Unit	Method									
Grammage	g/m²	ISO 536	105	115	120	130	135	150	160	165	200
SCT CD	kN/m	ISO 9895	2.15	2.35	2.50	2.65	2.75	3.10	3.25	3.35	4.00
CMT 30	Ν	ISO 7263	200	225	235	255	265	295	310	315	-
Guaranteed values											
Property	Unit	Method									
rioperty	Onic	Hethou									
Grammage	g/m²	ISO 536	105	115	120	130	135	150	160	165	200
			105 ±3	115 ±3	120 ±3	130 ±3	135 ±3	150 ±3	160 ±3	165 ±3	200 ±3
Grammage	g/m²	ISO 536									
Grammage Grammage average, min/max	g/m² %	ISO 536 ISO 536	±3	±3	±3	±3	±3	±3	±3	±3	±3



37

Medium High Performance Plus

Medium HP Plus is produced in Aschaffenburg, Belišće, Kemsley, Lucca, Rouen, Witzenhausen, Zărnești and Alcolea mills. We can offer you two slightly different variations of Medium HP Plus.

Characteristics

- FSC[®] certified
- Made from 100% recycled fibres with performance additives to ensure very high strength properties
- A good alternative to Semi-Chemical fluting
- Good runnability and bonding

Key Applications



Typical Values	Typical is what a customer can expect to receive on a customer reel average
Guaranteed values	Guaranteed is a min/max value of a property on a customer reel average
Test conditions	50% RH and 23°C
Issue date	September 2023
CEPI Code	44

Alternative grammages, not listed, may be available – please contact our sales team for more information.

Medium HP Plus produced in Alcolea

Typical values							
Property	Unit	Method					
Grammage	g/m²	ISO 536	130	140	150	160	170
SCT CD	kN/m	ISO 9895	2.85	3.10	3.30	3.50	3.75
CMT 30	Ν	ISO 7263	327	350	375	400	425
Guaranteed values							
Property	Unit	Method					
Grammage	g/m²	ISO 536	130	140	150	160	170
Grammage average, min/max	%	ISO 536	±Β	±3	±3	±3	±3
Moisture average	%	Online	8.5 ±1.5	8.5 ±1.5	8.5 ±1.5	8.5 ±1.5	8.5 ±1.5
SCT CD, min	kN/m	ISO 9895	2.60	2.80	3.00	3.20	3.40
CMT 30, min	Ν	ISO 7263	285	307	326	346	367
Porosity, Gurley, min	s/100ml	ISO 5636-5	30	30	30	30	30



Medium High Performance Wet Strength

Medium HP WS is produced in Belišće and Alcolea mills. We can offer you two slightly different variations of Medium HP WS.

Characteristics

- FSC[®] certified
- Made from 100% recycled fibres with performance additives and wet-strength to resist high moisture and retain high strength properties
- A good alternative to Semi-Chemical fluting
- Good runnability and bonding

Key Applications



Typical Values	Typical is what a customer can expect to receive on a customer reel average
Guaranteed values	Guaranteed is a min/max value of a property on a customer reel average
Test conditions	50% RH and 23°C
Issue date	September 2023
CEPI Code	45

Alternative grammages, not listed, may be available – please contact our sales team for more information.

Medium HP WS produced in Belišće

Typical values				
Property	Unit	Method		
Grammage	g/m²	ISO 536	145	170
SCT CD	kN/m	ISO 9895	2.75	3.15
CMT 30	Ν	ISO 7263	315	340
Guaranteed values				
Property	Unit	Method		
Crammago				
Grammage	g/m²	ISO 536	145	170
Grammage average, min/max	g/m ² %	ISO 536 ISO 536	145 ±3	170 ±3
-	5			
Grammage average, min/max	%	ISO 536	±3	±3
Grammage average, min/max Moisture average	%	ISO 536 Online	±3 8.0 ±1	±3 8.0 ±1



39

Medium High Performance Wet Strength

Medium HP WS is produced in Belišće and Alcolea mills. We can offer you two slightly different variations of Medium HP WS.

Characteristics

- FSC[®] certified
- Made from 100% recycled fibres with performance additives to resist high humidity conditions and retain our highest strength properties
- A good alternative to Semi-Chemical fluting
- Good runnability and bonding

Key Applications



Typical Values	Typical is what a customer can expect to receive on a customer reel average
Guaranteed values	Guaranteed is a min/max value of a property on a customer reel average
Test conditions	50% RH and 23°C
Issue date	September 2023
CEPI Code	45

Alternative grammages, not listed, may be available – please contact our sales team for more information.

Medium HP WS produced in Alcolea

Typical values				
Property	Unit	Method		
Grammage	g/m²	ISO 536	170	190
SCT CD	kN/m	ISO 9895	4.30	4.80
CMT 30	Ν	ISO 7263	425	-
Guaranteed values				
Property	Unit	Method		
Grammage	g/m²	ISO 536	170	190
Grammage average, min/max	%	ISO 536	±3	±Β
Moisture average	%	Online	8.5 ±1.5	8.5 ±1.5
SCT CD, min	kN/m	ISO 9895	3.90	4.40
		100 7000	774	
CMT 30, min	N	ISO 7263	374	-



Dual-Use

Made from 100% recycled fibre, our Dual-Use grades perform well during the corrugator and the conversion process, meaning they can be utilised to their full potential in both sheet feeding and conventional printing sectors.

Grades available

Dual-Use

• Dual-Use HP Plus



Dual-Use

Dual-Use is produced in Kemsley, Alcolea, Dueñas and Rouen mills. We can offer you two slightly different variations of Dual-Use.

Characteristics

- FSC[®] certified
- Made from 100% recycled fibres
- Great runnability as Liner or Medium on the corrugator with very good strength properties
- Good solution for optimising warehouse stock

Key Applications



Typical Values	Typical is what a customer can expect to receive on a customer reel average
Guaranteed values	Guaranteed is a min/max value of a property on a customer reel average
Test conditions	50% RH and 23°C
Issue date	September 2023
CEPI Code	52

Alternative grammages, not listed, may be available – please contact our sales team for more information.



Dual-Use produced in Kemsley and Rouen

Typical values						
Property	Unit	Method				
Grammage	g/m²	ISO 536	85	100	110	125
Burst strength	kPa	ISO 2758	200	235	255	290
SCT CD	kN/m	ISO 9895	1.60	1.85	2.05	2.30
CMT 30	Ν	ISO 7263	-	160	175	200
Guaranteed values						
Property	Unit	Method				
Grammage	g/m²	ISO 536	85	100	110	125
Grammage average, min/max	%	ISO 536	±β	±3	±3	±3
Moisture average	%	Online	8.0 ±1	8.0 ±1	8.0 ±1	8.0 ±1
Burst strength, min	kPa	ISO 2758	180	210	230	260
SCT CD, min	kN/m	ISO 9895	1.45	1.70	1.90	2.15
CMT 30, min	Ν	ISO 7263	-	145	160	180

Dual-Use

Dual-Use is produced in Kemsley, Alcolea, Dueñas and Rouen mills. We can offer you two slightly different variations of Dual-Use.

Characteristics

- FSC[®] certified
- Made from 100% recycled fibres
- Great runnability as Liner or Medium on the corrugator with very good strength properties
- Good solution for optimising warehouse stock

Key Applications



Typical Values	Typical is what a customer can expect to receive on a customer reel average
Guaranteed values	Guaranteed is a min/max value of a property on a customer reel average
Test conditions	50% RH and 23°C
Issue date	September 2023
CEPI Code	52

Alternative grammages, not listed, may be available – please contact our sales team for more information.

Dual-Use produced in Alcolea and Dueñas

Typical values								
Property	Unit	Method						
Grammage	g/m²	ISO 536	100	110	130	145	160	190
Burst strength	kPa	ISO 2758	230	250	315	350	385	455
SCT CD	kN/m	ISO 9895	1.80	2.00	2.30	2.60	2.90	3.45
CMT 30	Ν	ISO 7263	190	210	245	265	300	-
Guaranteed values								
Property	Unit	Method						
Grammage	g/m²	ISO 536	100	110	130	145	160	190
Grammage average, min/max	%	ISO 536	±3	±3	±3	±3	±3	±3
Moisture average	%	Online	8.5 ±1.5	8.5 ±1.5	8.5 ±1.5	8.5 ±1.5	8.5 ±1.5	8.5 ±1.5
Burst strength, min	kPa	ISO 2758	200	220	265	290	320	380
SCT CD, min	kN/m	ISO 9895	1.60	1.75	2.10	2.35	2.55	З.00
CMT 30, min	Ν	ISO 7263	165	180	214	235	260	-
Cobb 60s, max	g/m²	ISO 535	50	50	50	50	50	50



Dual-Use High Performance Plus

Dual-Use HP Plus is produced in Kemsley mill.

Typical values			
Property	Unit	Method	
Grammage	g/m²	ISO 536	130
Burst strength	kPa	ISO 2758	335
SCT CD	kN/m	ISO 9895	2.70
CMT 30	Ν	ISO 7263	245
Guaranteed values			

Property	Unit	Method	
Grammage	g/m²	ISO 536	130
Grammage average, min/max	%	ISO 536	±3
Moisture average	%	Online	8.0 ±1
Burst strength, min	kPa	ISO 2758	300
SCT CD, min	kN/m	ISO 9895	2.45
CMT 30, min	Ν	ISO 7263	210
Cobb 60s, max	g/m²	ISO 535	45

Characteristics

- FSC[®] certified
- Made from 100% recycled fibres
- Great runnability as Liner or Medium on the corrugator with the highest strength properties available to suit demanding applications
- Good solution for optimising warehouse stock

Key Applications



Typical Values	Typical is what a customer can expect to receive on a customer reel average
Guaranteed values	Guaranteed is a min/max value of a property on a customer reel average
Test conditions	50% RH and 23°C
Issue date	September 2023
CEPI Code	58

Alternative grammages, not listed, may be available – please contact our sales team for more information.





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