



RYDAL PACKAGING COLLECTION

TARGET SECTOR
Luxury Packaging

FibreBlend
UPCYCLED TECHNOLOGY

TECHNICAL
SERVICES
DOCUMENT

JAMES CROPPER

MANUFACTURED IN GREAT BRITAIN

RYDAL PACKAGING COLLECTION

The natural paper choice for premium packaging.

While beauty and functionality have always been expected of luxury products, today's consumers also insist they are environmentally and socially responsible – and this extends across the supply chain.

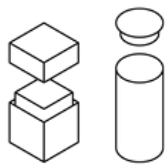
The Rydal Packaging Collection was created to directly answer this need while safeguarding the beauty of premium paper and ensuring a variety of application possibilities for brands.

FibreBlend
UPCYCLED TECHNOLOGY



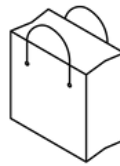
APPLICATIONS

With luxury goods in mind, the Rydal collection has been engineered to provide a natural and tactile feel. Printers and converters will experience an easy reproduction as the papers have been specially designed to ensure outstanding print performance and converting characteristics. Suitable for: cosmetics, fragrance, gift, retail, wines and spirits, and portable electronic packaging.



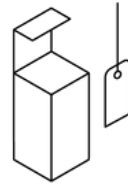
120 GSM
RIGID BOXES

HIGH STRENGTH PROPERTIES COMBINED WITH A NATURAL FINISH SUITED FOR COVERING RIGID BOXES OR WRAPPING TUBES.



220 GSM
RETAIL CARRIER BAGS

THE HIGH SURFACE STRENGTH ENSURES GOOD GLUEABILITY AND PREVENTS SPLITTING ON FOLDS FOR SUPERB CONVERTING PERFORMANCE.

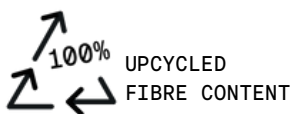


350 GSM
FOLDING BOXES

THE LUXURIOUS ANTIQUE FEEL OF RYDAL MAKES IT THE PREFERRED CHOICE FOR HIGH END FOLDING BOX BOARDS OR GARMENT TAGS.

PRINTING & CONVERTING SUITABILITY

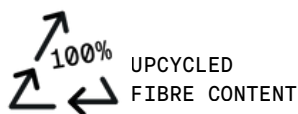
- Lithography
- Silk Screen
- Dry Toner
- Blind Embossing
- Die Stamping
- Foil Blocking
- Relief Processes
- Laser Cutting
- Varnishing



ECO WHITE & ECO BLACK

OUR BRIGHTEST RECYCLED WHITE AND DEEPEST RECYCLED BLACK FOR PACKAGING

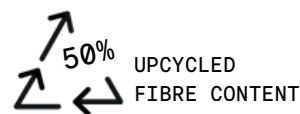
WHITE: 100% POST INDUSTRIAL FIBRE
BLACK: MINIMUM 40% POST CONSUMER FIBRE



DENIM WHITE

CONTAINS UPCYCLED DENIM FIBRES RECOVERED FROM WASTE STREAMS WITH 50% PCW

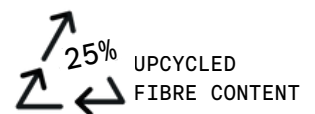
CONTAINS 20% UPCYCLED POST-CONSUMER COTTON



BRIGHT WHITE & ECLIPSE BLACK

THE PERFECT BALANCE OF FRESH AND RECOVERED FIBRES, CONTAINING 50% PCW

CONTAINS MINIMUM 40% POST CONSUMER FIBRE



PURE WHITE & OBSIDIAN BLACK

INDISTINGUISHABLE FROM 100% FRESH FIBRE PAPER BUT INHERENTLY MORE SUSTAINABLE

CONTAINS UP TO 25% RECYCLED FIBRE

CUSTOMISE YOUR RYDAL

Our Tailor Made service allows you to indulge your wildest creative impulses.

Choose your colour, texture and functional requirements, and we will make a paper just for you.

COLOUR



PERFECT BASE

3 shade of black,
3 shades of white,
the perfect
packaging base



CUSTOM

Match your brand
with colour match
service

TEXTURE



PATTERNS

35 embosses
+ 5 feltmarks
including textile
weaves, leathers and
geometrics



BESPOKE

Tailor made design
for those wanting a
truly unique look
and feel



FIBRE

The Rydal Packaging Collection offers a
combination of fibres, shades and weights
making it a staple in any packaging range

FibreBlend
UPCYCLED TECHNOLOGY

NEW INNOVATION

Working with the fashion industry and
partners, James Cropper is the first paper
mill to upcycle used textile as a fibre source
for luxury packaging

RYDAL
APPAREL



ENHANCEMENTS



VARNISH

Offers additional
protection alongside
a unique finish



LAMINATION

Create board up to
3mm thick, or create
bespoke colour
combinations



ANTI-VIRAL

Added product
protection with
PaperGard™ silver
ion technology



BESPOKE SIZES

Adaptable to your
requirements

TECHNICAL DATA

WHITE	Pure White 25% Recycled			Bright White 50% Recycled			Eco White 100% Recycled	Tolerance	Standard
Grammage g/m2:	120	220	350	120	220	350	350	±5%	ISO 530
Thickness µm:	190	315	485	175	310	485	435	±7.5%	ISO 534
Bulk ml/g:	1.58	1.43	1.39	1.46	1.41	1.39	1.34		
Burst kPa:	330	600	750	400	680	900	700	MINIMUM	ISO 2758
Tear (MD) mN:	850	2200	2700	1050	1750	2800	2900	TARGET	ISO 1924-2
Tear (CD) mN:	950	2400	2800	1100	1850	3600	2900	TARGET	ISO 1924-2
Cobb (1 min) g/m2:	25	25	25	25	25	25	25	TARGET	ISO 535
Bendsten Smoothness ml/min:	1000	1000	1000	1000	1000	1000	1400	TARGET	ISO 1924
Wax Pick / Clear:	16	16	16	16	16	16	14	MINIMUM	DENNISON
Moisture %:	7.0	7.0	7.0	7.0	7.0	7.0	7.0	NOMINAL	ISO 287
Stiffness (MD) mN:	90	340	440	26	108	415	306	TARGET	ISO 5628
Stiffness (CD) mN:	45	170	240	17	72	190	148	TARGET	ISO 5628
Brightness:	114	114	114	112	112	112	106	TARGET	TAPPI
CIE Whiteness:	155	155	155	151	151	151	140	TARGET	D65-1D65-100
Tensile MD kN/m:	7	14	17	9	15	24	20	TARGET	ISO 1924-2
Tensile CD kN/m:	4	8	10	6.5	8	12	9.6	TARGET	ISO 1924-2

BLACK	Obsidian Black 25% Recycled			Eclipse Black 50% Recycled			Eco Black 100% Recycled	Tolerance	Standard
Grammage g/m2:	120	220	350	120	220	350	120 220	±5%	ISO 530
Thickness µm:	170	295	462	170	295	462	170 315	±7.5%	ISO 534
Bulk ml/g:	1.42	1.34	1.32	1.42	1.34	1.32	1.41 1.37		
Burst kPa:	400	680	1010	400	680	1010	250 450	MINIMUM	ISO 2758
Tear (MD) mN:	1050	2250	3400	1050	2250	3400	1200 2200	TARGET	ISO 1924-2
Tear (CD) mN:	1100	2400	4600	1100	2400	4600	1250 2300	TARGET	ISO 1924-2
Cobb (1 min) g/m2:	25	25	25	25	25	25	25 25	TARGET	ISO 535
Bendsten Smoothness ml/min:	1000	1000	1000	1000	1000	1000	1000 1000	TARGET	ISO 1924
Wax Pick / Clear:	14	14	14	14	14	14	14 14	MINIMUM	DENNISON
Moisture %:	7.0	7.0	7.0	7.0	7.0	7.0	7.0 7.0	NOMINAL	
Relative Humidity:	45	45	45	45	45	45	45 45	± 10	ISO 287
Stiffness (MD) mN:	18.5	85	400	18.5	85	400	15.3 95	TARGET	ISO 5628
Stiffness (CD) mN:	11	55	190	11	55	190	7.6 54.5	TARGET	ISO 5628
Tensile MD kN/m:	9.1	14.6	21.7	9.1	14.6	21.7	10 14.8	TARGET	ISO 1924-2
Tensile CD kN/m:	6.5	9.5	12.5	6.5	9.5	12.6	6.3 8.1	TARGET	ISO 1924-2

APPAREL	Denim White 100% Recycled		Tolerance
Grammage g/m2:	220	350	±5%
Thickness µm:	310	500	NOMINAL
Burst kPa:	600	1075	MINIMUM
Cobb (1 min) g/m2:	32	35	TARGET
Bendsten Smoothness ml/min:	1000	1000	NOMINAL
Wax Pick / Clear:	12	16	MINIMUM
Tear (CD) mN:	1980	-	NOMINAL
Tear (MD) mN:	1760	-	NOMINAL
Stiffness (MD) mN:	100	348	NOMINAL
Stiffness (CD) mN:	50	176	NOMINAL
Moisture %:	7.0	7.0	±0.5%



CUPCYCLING, WORK + TRIM
FIBRES RECOVERED FROM USED
COFFEE CUPS + CUP OFFCITS,
PLACES OF WORK AND INDUSTRY



The mark of
responsible forestry

ENVIRONMENTAL CREDENTIALS



94/62/CE
& CONEG
COMPLIANT



FULLY
RECYCLABLE



NON CARBON
BLACK



EN71-3
COMPLIANT



ELEMENTAL
CHLORINE
FREE



CHP
RECYCLING
ENERGY



ACID FREE
WHITE



REACH
COMPLIANT
(EC NO 1272/2008)

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