



RYDAL PACKAGING COLLECTION

TARGET SECTOR
Luxury Packaging

TECHNICAL
SERVICES
DOCUMENT

JAMES CROPPER

MANUFACTURED IN GREAT BRITAIN

RYDAL PACKAGING COLLECTION

The natural paper choice for premium packaging.

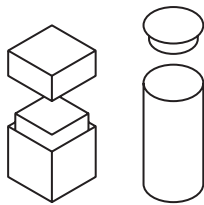
While beauty and functionality have always been expected of luxury products, today's consumers also insist they are environmentally and socially responsible – and this extends across the supply chain.

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.



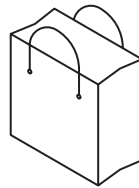
APPLICATIONS

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: Cosmetic, Fragrance, Gift, Retail, Wines & spirits and Portable electronic packaging.



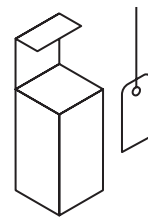
120 GSM
RIGID BOXES

HIGH STRENGTH PROPERTIES COMBINED WITH A NATURAL FINISH MAKE THIS BOX LINER EQUALLY 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.

PRINT SUITABILITY

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



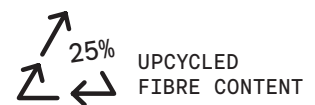
NATURAL WHITE & SHADOW BLACK
TRUE SUSTAINABLE BEAUTY; FULLY RECYCLED PAPER WITH 50% PCW
CONTAINS A MINIMUM OF 40% PCW FIBRE



NEW: DENIM WHITE
CONTAINS UPCYCLED DENIM FIBRES RECOVERED FROM WASTE STREAMS WITH 50% PCW INCLUDING 20% UPCYCLED POST-CONSUMER COTTON



BRIGHT WHITE & ECLIPSE BLACK
THE PERFECT BALANCE OF FRESH AND RECOVERED FIBRES WITH 50% PCW
CONTAINS A MINIMUM OF 40% PCW FIBRE



PURE WHITE & OBSIDIAN BLACK
INDISTINGUISHABLE FROM 100% FRESH FIBRE PAPER BUT MORE SUSTAINABLE
UP TO 25% RECYCLED FIBRE CONTENT

CUSTOMISE YOUR RYDAL

Tailor Made allows you to indulge your wildest creative impulses.

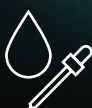
Choose your colour, texture and functional requirements,
and we will make a paper just for you.

COLOUR



PERFECT BASE

3 shades 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 textiles as a fibre
source for luxury packaging paper.

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

WHITE	Bright White 50% Recycled			Natural White 100% Recycled			Pure White 25% Recycled			Tolerance	Standard
Grammage g/m ² :	120	220	350	120	220	350	120	220	350	± 5%	ISO 530
Thickness µm:	175	310	485	170	295	470	190	315	485	± 7.5%	ISO 534
Bulk ml/g:	1.46	1.41	1.39	1.42	1.35	1.34	1.58	1.43	1.39		
Burst kPa:	400	680	900	400	640	901	330	600	750	MINIMUM	ISO 2758
Tear (MD) mN:	1050	1750	2800	950	1600	2720	850	2200	2700	TARGET	ISO 1924-2
Tear (CD) mN:	1100	1850	3600	1050	1750	3280	950	2400	2800	TARGET	ISO 1924-2
Cobb (1 min) g/m ² :	25	25	25	25	25	25	25	25	25	TARGET	ISO 535
Bendsten Smoothness ml/min:	1000	1000	1000	1000	1000	1000	1000	1000	1000	TARGET	ISO 2494
Wax Pick / Clear:	16	16	16	14	14	14	16	16	16	MINIMUM	DENNISON
Moisture %:	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	NOMINAL	ISO 287
Stiffness (MD) mN:	26	108	415	26	105	318	90	340	440	TARGET	ISO 5628
Stiffness (CD) mN:	17	72	190	17	50	180	45	170	240	TARGET	ISO 5628
Brightness:	112	112	112	109	109	109	114	114	114	TARGET	TAPPI
CIE Whiteness (D65-10°):	151	151	151	145	145	145	155	155	155	TARGET	D65-10o
Tensile MD kN/m:	9.0	15	24	8.5	14	19	7	14	17	TARGET	ISO 1924-2
Tensile CD kN/m:	6.5	8	12	5.0	8	10	4	8	10	TARGET	ISO 1924-2

BLACK	Eclipse Black 50% Recycled			Shadow Black 100% Recycled			Obsidian Black 25% Recycled			Tolerance	Standard
Grammage g/m ² :	120	220	350	120	220	350	120	220	350	± 5%	ISO 530
Thickness µm:	170	295	462	160	290	450	170	295	462	± 7.5%	ISO 534
Bulk ml/g:	1.42	1.34	1.32	1.33	1.32	1.29	1.42	1.34	1.32		
Burst kPa:	400	680	1010	360	615	800	400	680	1010	MINIMUM	ISO 2758
Tear (MD) mN:	1050	2250	3400	950	1750	2900	1050	2250	3400	TARGET	ISO 1924-2
Tear (CD) mN:	1100	2400	4600	1000	1850	4300	1100	2400	4600	TARGET	ISO 1924-2
Cobb (1 min) g/m ² :	25	25	25	25	25	25	25	25	25	TARGET	ISO 535
Bendsten Smoothness ml/min:	1000	1000	1000	1000	1000	1000	1000	1000	1000	TARGET	ISO 2494
Wax Pick / Clear:	14	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	7.0	NOMINAL	ISO 287
Relative Humidity:	45	45	45	45	45	45	45	45	45	± 10	
Stiffness (MD) mN:	18.5	85	400	18.5	100	385	18.5	85	400	TARGET	ISO 5628
Stiffness (CD) mN:	11	55	190	7.5	50	180	11	55	190	TARGET	ISO 5628
Tensile MD kN/m:	9.12	14.57	21.65	8.35	13.42	18.55	9.12	14.57	21.65	TARGET	ISO 1924-2
Tensile CD kN/m:	6.49	9.49	12.52	5.26	7.63	10.35	6.49	9.49	12.52	TARGET	ISO 1924-2

RYDAL APPAREL	Denim White 100% Recycled		Tolerance
Grammage g/m ² :	220	350	+ - 5%
Thickness µm:	310	500	NOMINAL
Burst kPa:	600	1075	MINIMUM
Cobb (1 min) g/m:	32	35	TARGET
Bendtsen Smoothness ml/min:	1000	1000	NOMINAL
Dennison Wax Pick / Clear:	12	16	MINIMUM
Tear CD mN:	1980	-	NOMINAL
Tear MD mN:	1760	-	NOMINAL
Rigidity MD mN:	100	348	NOMINAL
Rigidity CD mN:	50	176	NOMINAL
Moisture %:	7.0	7.0	+ - 0.5



CUPCYCLING, WORK + TRIM
FIBRES RECOVERED FROM USED
COFFEE CUPS + CUP OFFCUTS,
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



TOTALLY
CHLORINE
FREE



CHP
RECYCLING
ENERGY



ACID FREE
WHITE



REACH
COMPLIANT
(EC NO 1272/2008)

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