

Water-activated paper tape

GUMMED KRAFT · PLAIN AND PRINTED · 70 MM

 CP-TP-G70 70 mm × 200 m
 CP-TP-P70 70 mm × 200 m, 2 colour

PROJECT

CATALOG NO.

TYPE

DATE

PRODUCT DESCRIPTION

A kraft tape coated with a starch gum that is dry on the roll and wet when it lands. The water carries the starch into the board's outer liner rather than leaving it on the surface, so the strip and the carton become one piece of paper. One strip closes a centre seam, the sealed carton goes into paper collection with the tape still on it, and the seal cannot be broken without saying so.

The bond

- The gum is a starch that wets out and keys into the board's outer liner
- It penetrates about 0.15 mm, which is past the liner's own surface fibres
- Removal lifts fibre rather than the strip — the damage is the evidence
- Green tack at 3 seconds; full strength 20 minutes after it lands

The gum

- Water-activated starch, 32 gsm dry, coated the full width of the backing
- Water take-up 25 % of the strip's own weight at the moment of application
- Nothing is added to make it tacky and nothing is added to keep it stable
- Dry it is inert, so an unopened roll has no shelf life worth quoting

The roll

- 70 mm wide, 200 m long, on a 76 mm fibre core
- Roll weight 1.90 kg; twelve rolls to a carton, no interleaving
- Wound gum side in, so the coated face never touches the one below it
- The core is the same kraft as the backing and leaves by the same route

Material

- 100 gsm natural kraft backing, unbleached and undyed
- No film, no laminate, no solvent and no reinforcement in the web
- Recycled fibre in the furnish, with virgin kraft carrying wet strength
- Everything in the strip is paper or starch, and both leave together

Print

- Two flexo colours on the P70 grade, on the uncoated face of the backing
- Print goes on before the gum, so the coated face is never printed
- 0.20 mm printed against 0.18 mm plain — same dispenser setting
- Minimum type 8 pt. Uncoated kraft closes up fine detail on a moving web

Dispensing

- A water dispenser, manual or powered, set to the length being cut
- Manual is a pot and a brush — no power, and nothing to calibrate
- Powered adds a heated pot and a length keypad, for a bench past 200 a day
- Either way the strip is wet when it lands and does not reposition after

Tolerances

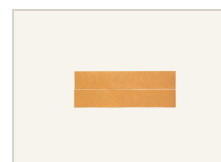
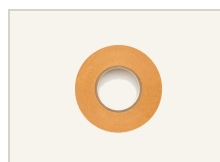
- Width ± 1 mm; roll length ± 2 %
- Backing weight ± 4 gsm; gum coat ± 3 gsm
- Core diameter ± 1 mm
- Print registration ± 1.5 mm colour to colour, across the web

Applications

- Any carton that has to arrive with a seal a receiving bench can read
- Fulfilment and subscription, where the parcel is part of what is bought
- Regulated and high-value despatch, where an opened box must look opened
- Anywhere a pack is going to one material and the tape is what is left



Three-quarter



Top · Side · Flat strips

SPECIFY

The seal is the only part of a parcel anyone has to read. Everything else in a pack is judged by whether the contents arrived intact. A closure is judged by something harder: whether anyone can tell it was opened. A strip that sits on the surface can be lifted and pressed back down, and nobody downstream is any the wiser. A strip that has keyed into the liner cannot come away without bringing the liner with it — which means the evidence is not a feature added to this tape. It is a consequence of how the tape sticks at all.

WATER-ACTIVATED

TAMPER EVIDENT

FIBRE BOND

ONE STRIP SEAL

AT A GLANCE

Format	Gummed kraft, roll
Roll	70 mm × 200 m
Core	76 mm
Backing	100 gsm kraft
Bond	Tears fibre
Dispenser	Water, no power

See also. Every mark this family holds, what each one certifies and the recycled figure by weight are on the features and benefits sheet.

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BUILD THE CODE

SERIES	PRODUCT	BACKING	PRINT	PACK
CP-TP	G70 Gummed kraft, 70 mm	K 100 gsm natural kraft	P Plain, unprinted	12 Twelve rolls per carton
	P70 Gummed kraft, 70 mm, printed	—	2C Two colour flexo	PL Pallet, 24 per layer

Example

CP-TP-G70-K-P-12

Gummed kraft tape, seventy millimetre strip on 100 gsm natural kraft, plain unprinted, supplied twelve rolls to a carton.

- The number in the product code is the tape width in millimetres. That is a fourth convention on this catalogue and it is the plain one: the board families count a nominal footprint in inches, the honeycomb web counts a nominal width in inches, the crinkle fill counts the shredder set its crimp is taken on, and a tape is bought by the width of the strip. Seventy millimetres is what is written and what is supplied.
- G and P are two grades of one product rather than a finish applied to one grade. They share a backing, a gum, a width and a core, and they differ only in whether two flexo colours went on before the gum did.
- Print carries its own minimum and its own lead time, both held against the P70 code in the catalogue record and shown in the table above. G70 carries neither.
- Tape belongs on the same order as the carton it closes. A carton line that runs out of tape stops; a tape line that runs out of cartons has merely overbought.

SIZES, MINIMUM ORDER AND LISTINGS

CODE	ROLL SIZE	MINIMUM · LEAD	LISTINGS
CP-TP-G70	70 mm × 200 m	12 rolls · 3 days	 
CP-TP-P70	70 mm × 200 m, 2 colour	36 rolls · 15 days	 

Minimum order and lead time are held against the code in the catalogue record and are shown in the table above. Lead time runs from order receipt, and from artwork approval on the printed grade. Print does not change the backing, the gum or anything else on this sheet.

ACCESSORIES, ORDERING

CODE	ITEM	MINIMUM	LEAD
CP-CTN-RSC1	Shipping carton, RSC	250	5 days
CP-VF-HC24	Honeycomb wrap	6 rolls	4 days
CP-VF-CR18	Crinkle void fill	4 cartons	2 days

What each accessory is for, and how it goes in, is on the assembly instructions.

CUSTOM SIZES

Outside the standard roll. A narrower or wider strip is a slitting pass against the same coated web at a 40 roll minimum and a 2 week lead. Reinforced tape — glass yarn laid into the backing — is a different web, a different bond and is not on this catalogue: it puts a material into the parcel that does not leave by the paper stream, which is the one thing this family exists to avoid. Before specifying a wider strip, watch the bench place a few — a strip that keeps missing the seam is a placement problem, and a wider one only hides it.

ARTWORK AND PROOFING

	REQUIREMENT
Supply format	Vector, outlined, on the P70 grade only. There is no artwork stage on G70
Repeat	Along the web, any length that divides into 200 m without a part repeat at the core
Colours	Two, from the CambiumPak palette, on natural kraft. There is no white to print on
Minimum type	8 pt. Uncoated kraft on a moving web closes up anything finer
Registration	Design to survive ±1.5 mm colour to colour. Butt-fitting two colours will not hold
Proof round	One printed proof from the run before release. A screen proof will not show kraft

Artwork applies to the printed grade alone, which is most of the difference between the two codes on the ordering table.

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MECHANICAL PERFORMANCE

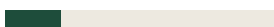
	CP-TP-G70	CP-TP-P70
Form	Gummed kraft, roll	Gummed kraft, roll
Strip width	70 mm	70 mm
Roll length	200 m	200 m
Roll weight	1.90 kg	1.90 kg
Core diameter	76 mm	76 mm
Backing	100 gsm kraft	100 gsm kraft
Total thickness	0.18 mm	0.20 mm
Print	None	2 colour flexo
Strips per centre seam	1	1
Rolls per carton	12	12

TEST CONDITIONS

- The two grades seal identically. They share a backing and a gum, and the only figure that moves between them is total thickness, which is two hundredths of a millimetre of ink.
- One strip per seam is a specification, not a habit. It holds because the bond is inside the liner rather than on it, and the reason for that is on this sheet and on no other.
- Every figure on this sheet is inferred from the nearest ratified family member. Nothing here has been through a test house.

RELATIVE CAPACITY

Tape on a hundred cartons

Pressure-sensitive, H-pattern  340 metresPressure-sensitive, three strips  210 metresWater-activated, one strip  70 metres

SERVICE AND STORAGE

Service temperature −20 °C to 60 °C, once cured

Storage humidity 40 – 60 % RH

Application temperature 5 °C and above, on dry board

Shelf life, unopened Twelve months, dry

TAPE SPECIFICATION

Backing 100 gsm natural kraft

Adhesive Water-activated starch gum

Print 2 colour flexo, P70 only

Tamper evidence Fibre-tearing bond

WHICH ROLL, AND HOW MANY STRIPS

JOB	SPECIFY	WHY
Plain cartons, any route	CP-TP-G70	The stock roll, twelve to a carton
Branded outers	CP-TP-P70	Same backing, same gum, two colours
Cartons over 30 kg	One strip, plus one each end	The seam takes one; the ends take the load
A pack that must reopen	Not this family	A readable seal cannot also be a reusable one

Size the strip to the seam and add a turn-down at each end. A strip cut to the length of the box has nothing left to turn, and a seal that stops at the edge is a seal that peels from the edge.

TEST METHODS

FIGURE	METHOD	CONDITIONING
Bond strength	Ten sealed seams pulled apart at 180° on a bench gauge, twenty minutes after application	23 °C / 50 % RH, 24 h
Fibre tear	The same ten seams inspected after the pull, the torn area scored against the bonded area	23 °C / 50 % RH, 24 h
Wet-out	Strips run at bench setting onto uncoated kraft board, first tack timed against the board	23 °C / 50 % RH, 24 h
Backing weight	Ten 100 cm ² discs cut across the full strip width, gum washed off, weighed dry	23 °C / 50 % RH, 24 h

These figures are inferred from the nearest ratified family member rather than measured on this product. Methods are given so they can be reproduced once the tape is put through them.

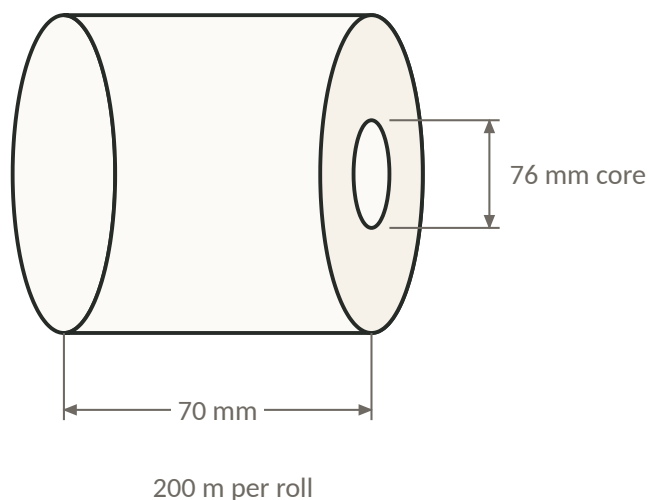
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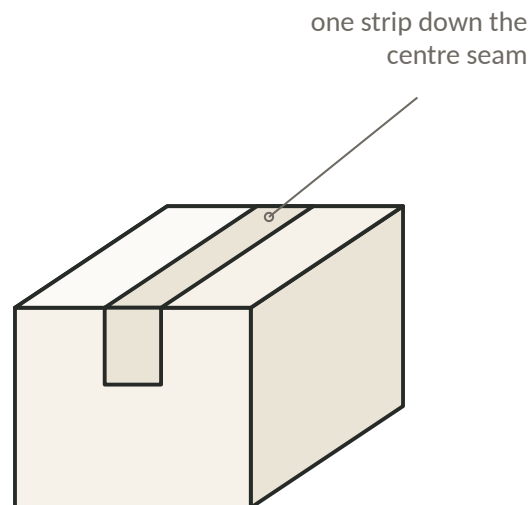
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ROLL AND STRIP

ROLL



ONE-STRIP SEAL



bond tears fibre — tamper evident

Every dimension on this sheet is in millimetres, except the roll length, which is in metres because that is how a roll is bought. Thicknesses are taken on the dry strip before application. A wet strip is thicker than either figure and a cured one is thinner.

MEASUREMENTS

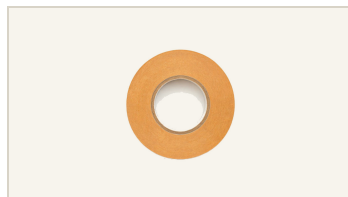
Tape width	70 mm
Roll length	200 m
Core diameter	76 mm
Total thickness	0.18 mm
Printed thickness	0.20 mm
Roll weight	1.90 kg

PALLETISATION

Pallet	1200 × 1000 mm
Cartons per layer	24
Layers per pallet	6
Pallet height, wrapped	1,410 mm



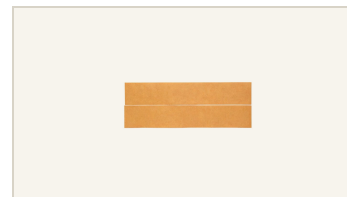
Three-quarter



Top



Side



Flat strips