

Crinkle void fill

CRIMPED RECYCLED KRAFT · LOOSE FILL · NO DISPENSER

CP-VF-CR18 10 kg carton

PROJECT	CATALOG NO.	TYPE	DATE
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PRODUCT DESCRIPTION

Recycled kraft shredded into strands and crimped, supplied loose in a carton. The crimp is what separates this from shredded paper: it holds one strand off the next under light compression instead of letting the fill settle into a mat at the bottom of the box. It is undyed, inherently anti-static, and the only cushioning material on this catalogue the customer is meant to see.

The crimp

- Each strand is 3 mm wide and set into a wave on a 6 mm pitch
- The set is mechanical, taken in wet fibre and dried in — not printed or bonded
- Crest bears on trough, so strands hold each other apart instead of nesting
- The set is lost to water and to crushing. A relaxed strand is a flat strand, and flat strands mat

Loose density and yield

- Loosened density 95 kg/m³, measured poured and unworked
- A 10 kg carton yields about 105 litres loosened
- It arrives compressed and comes up as it is broken out, by hand at the bench
- Density under a closed carton flap is higher and is not the figure quoted here

Material

- Shredded recycled kraft, single grade, no virgin fibre in the furnish
- No coating, no laminate, no adhesive, no added colour and no anti-static additive
- Undyed throughout — the fill is the colour the recovered paper is, and lots vary slightly
- Nothing in it is not paper, including the carton it arrives in

Anti-static behaviour

- Inherently anti-static. Cellulose holds enough moisture at room conditions not to take a charge
- There is no additive doing that job, so there is nothing to migrate onto a board or a lens
- It does not need conditioning, earthing or a treated bench
- Bone-dry stock in a heated store behaves less well — a storage matter, not a specification one

Presentation

- This is the one cushioning material on the catalogue the customer opens the box onto
- Undyed kraft against a kraft carton reads as one material, not as packing waste
- It does not shed dust the way a shredded, uncrimped fill does
- Dyed stock is available at a 2,000 kg minimum and is a stock decision, not a finish

Supply

- One 10 kg carton, 500 × 400 × 400 mm, no liner and no bag inside it
- The carton is the dispenser. There is nothing to buy, mount or power
- Four cartons minimum, two working days
- Cartons stack four high on the pallet and are not banded

Tolerances

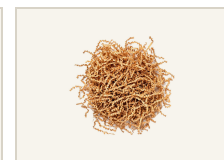
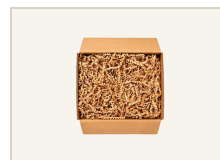
- Carton weight ±0.2 kg — the fill is sold by weight, not by volume
- Yield ±8 % on the loosened figure — loosening is done by hand
- Strand width ±0.5 mm
- Crimp pitch ±1 mm

Applications

- The volume left above and around an item that is already wrapped or boxed
- Retail and subscription packs, where the fill is part of what is opened
- Electronics in their own boxes, where an additive-free fill matters
- Returns pools, where the same fill goes out and comes back until the crimp is gone



Three-quarter



In carton · Top, loose

SPECIFY

The crimp is the product. Shredded paper is not this, and the difference is not quality of paper or width of cut. It is that every strand here has a wave set into it, so strands bear on each other at their crests and hold a volume open. Take the crimp out — wet it, crush it under a pallet — and what is left is shredded paper, which settles to the bottom of the carton in transit and leaves the item sitting in a void it was supposed to be held out of.

UNDYED

ANTI-STATIC

PRESENTATION GRADE

LOOSE FILL

AT A GLANCE

Format	Crimped kraft, loose
Carton	10 kg
Yield	105 L loosened
Strand	3 mm wide
Colour	Natural, undyed
Dispenser	The carton

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	STOCK	FINISH	PACK
CP-VF	CR18 Crinkle void fill	R Recycled kraft	P Plain, undyed	C One 10 kg carton
	HC24 Honeycomb wrap, 600 mm	—	D Dyed stock, to order	4 Four cartons, minimum order
			—	

Example

CP-VF-CR18-R-P-C

Crinkle void fill in recycled kraft, plain undyed, supplied as one ten kilogramme carton.

- The number in the product code is not a size. There is one grade and one carton, and 18 is the shredder set the crimp is taken on. The governing figures are the weight and the loosened yield, and both appear on every sheet in this pack.
- The fill is ordered by weight and used by volume. Order against the yield figure, not against the weight, or the first month is always short.
- D is a stock decision taken at the shredder, not a finish applied after it. It carries a minimum and a lead time; P carries neither.
- CR18 and HC24 share a series and nothing else. One fills what is left round an item and one wraps the item itself, and no order should carry only one of them by accident.

SIZES, MINIMUM ORDER AND LISTINGS

CODE	SUPPLIED AS	MINIMUM · LEAD	LISTINGS
CP-VF-CR18	10 kg carton	4 cartons · 2 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. Dyed stock adds four weeks and does not change the strand, the crimp 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-TP-G70	Water-activated paper tape	12 rolls	3 days

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

CUSTOM SIZES

Outside the standard carton. Dyed stock runs at a 2,000 kg minimum on a 4 week lead and is taken at the shredder, so it is bought a pallet at a time rather than a carton at a time. A bulk bag is available on the same lead for benches turning more than eight cartons a week. Before committing to either, run the plain grade for a month and count cartons — the yield figure is a loosened one, and a bench that is not loosening properly reads as a bench that needs more fill.

ARTWORK AND PROOFING

REQUIREMENT	
Supply format	Not applicable — loose fill is not printed
Carton label	Vector or 300 dpi, 150 × 100 mm. This is the label the goods-in bench actually reads
Minimum type	8 pt. Uncoated kraft closes up fine detail
Colour	One, from the CambiumPak palette. Dyed fill is quoted against the shredder run, not against the artwork
Branding route	The outer carton and the tape, or a printed card laid on top of the fill
Card on the fill	Vector or 300 dpi. This is the one place the customer reliably looks, and it costs almost nothing
Proof round	One printed proof before the run. There is no proof stage on the fill itself

There is no artwork approval on the fill. Where a pack has something to say to the person opening it, the card laid on top of the fill is the cheapest place it has ever been said, and it runs to print lead times rather than to this family's.

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MECHANICAL PERFORMANCE

CP-VF-CR18	
Form	Crimped kraft strands, loose
Carton weight	10 kg
Carton size	500 × 400 × 400 mm
Yield, loosened	105 L
Density, loosened	95 kg/m ³
Strand width	3 mm
Crimp pitch	6 mm
Anti-static	Inherent, no additive
Colour	Natural kraft, undyed
Compostable	Industrial, 180 days
Pack quantity	1 carton

TEST CONDITIONS

- Yield is a loosened figure taken poured and unworked. Fill measured straight out of the carton reads low, and fill packed under a closed flap reads lower still; neither is this number.
- The crimp is what the density figure is measuring. A lot that has been wetted or crushed will pour to a higher density and a lower volume, and that is the failure rather than a variation.
- Every figure on this sheet is inferred from the nearest ratified family member. Nothing here has been through a test house.

RELATIVE CAPACITY

Store volume, fill for a hundred parcels

Loose-fill chips, bagged		340 litres
Shredded paper, baled		190 litres
Crinkle, in the carton		80 litres

SERVICE AND STORAGE

Service temperature	−20 °C to 60 °C, dry
Storage humidity	40 – 60 % RH
Wet strength	None – the crimp relaxes
Shelf life, dry	Indefinite, unopened

MATERIAL SPECIFICATION

Material	Shredded recycled kraft
Anti-static	Inherent, no additive
Colour	Natural kraft, undyed
Compostable	Industrial, 180 days

HOW MUCH FILL, AND WHERE

JOB	SPECIFY	WHY
Item boxed, headspace over it	A hand's depth over the item	Proud of the rim, so the closing flap compresses it. Level with the rim it settles loose.
Item wrapped, space all round	50 mm base, 40 mm walls	The base is the layer that matters. The rest stops the item reaching a wall it would hit.
Several items, kept apart	Not this family	Specify CP-DIV divider inserts. Fill between items works until the parcel is tipped.
A layer on the item itself	Not this family	Specify CP-VF-HC24. Burying an unwrapped item in fill buys volume where a wrap is wanted.

Fill to the base first and the walls after. A parcel filled from the top down has an item resting on the carton.

TEST METHODS

FIGURE	METHOD	CONDITIONING
Loosened yield	One carton broken out by hand into a graduated bin, levelled without compaction, volume read off, five cartons	23 °C / 50 % RH, 24 h
Settlement	A filled carton vibrated for 30 minutes at transit amplitude, drop in fill height measured, ten cartons	23 °C / 50 % RH, 24 h
Cushion equivalence	900 mm drop of a 1 kg flat head onto an instrumented block bedded in 60 mm of fill, ten drops	23 °C / 50 % RH, 24 h
Crimp retention	Fill cycled through five pack-and-unpack rounds, loosened volume measured after each	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 fill is put through them.

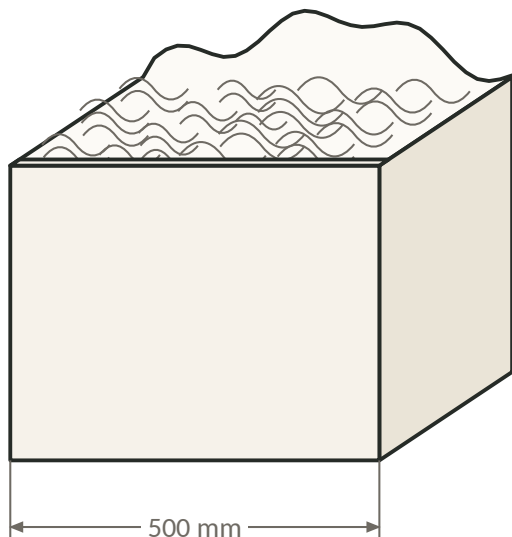
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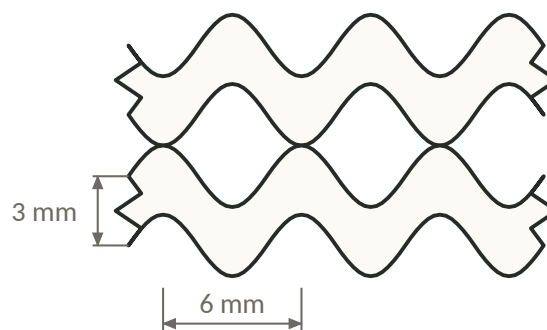
CARTON AND LOOSENEED FILL

IN CARTON



105 L loosened, per 10 kg carton

STRAND



crest bears on trough, so the strands
hold each other apart and do not settle

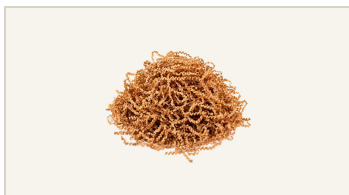
Every dimension on this sheet is in millimetres and every volume in litres. Yield and density are loosened figures, taken poured and unworked; fill under a hand or under a closed flap is denser than fill that is not, and neither is quoted here.

MEASUREMENTS

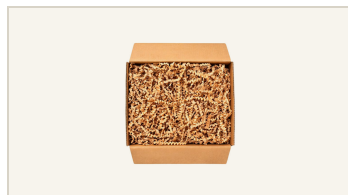
Carton weight	10 kg
Yield, loosened	105 L per carton
Strand width	3 mm
Crimp pitch	6 mm
Carton size	500 × 400 × 400 mm
Density, loosened	95 kg/m ³

PALLETISATION

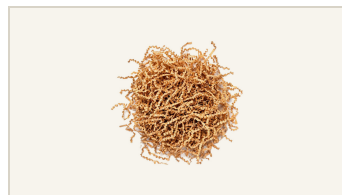
Pallet	1200 × 1000 mm
Cartons per layer	6
Layers per pallet	4
Pallet height, wrapped	1,750 mm



Three-quarter



In carton



Top, loose