

Moulded pulp tray, twelve cavity

WET-PRESS · NESTABLE · FLANGED RIM

CP-PLP-T12 320 × 240 × 42 mm

PROJECT	CATALOG NO.	TYPE	DATE
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PRODUCT DESCRIPTION

A wet-press moulded pulp tray formed from recycled newsprint and water, with no binder, coating or added colour. Twelve drafted cavities in a three-by-four grid sit inside a half-pallet footprint, and the rim is flanged rather than plain — which is what lets the pack close, either with a board lid or with a second tray inverted on top.

The rim

- Flange 14 mm wide around the full perimeter, with a 1.2 mm return lip on its outer edge
- The lip leaves 0.4 mm of clearance around a board lid — enough to drop in, not enough to rattle
- Nest pitch is set by flange bearing on flange, not by the cavity draft
- That is why a 34 mm cavity nests at the same 5 mm as the six cavity's 30 mm one

Forming

- Wet-press: formed against a tool and pressed dry in the same shape, not dry-pressed
- Cavity draft 4° per wall, as the six cavity — the two tools share cavity geometry
- No binder, no coating, no release agent and no added colour anywhere in the process
- Free moisture at demould 55%; the tray leaves the dryer at 8% and holds there

Material and wall

- Recycled wet-press pulp, principally post-consumer newsprint
- Wall thickness 1.1 mm nominal, held across the cavity wall, the flat and the flange
- Wall density 0.62 g/cm³, the same wet-press wall the six cavity carries
- Unit weight 78 g

Geometry

- Twelve cavities in a 3 × 4 array, 70 mm diameter, 34 mm deep
- Cavity pitch 80 mm both axes; overall 320 × 240 × 42 mm
- Footprint is half a 1200 × 1000 pallet deck in both directions, so nothing overhangs
- Nested pitch 5 mm, so a made-up height of 42 mm becomes 5 mm a tray in a column

Performance

- Cavity carries 400 g before the wall deflects visibly — this is a seating tray, not a load-bearing one
- A closed pair carries its own stack and nothing else; the outer carton takes the load
- Service temperature 0 °C to 60 °C dry; the tray softens rather than fails when wet
- A board lid closes the pack; it adds nothing to the cavity rating

Printing

- Not printed. Wet-press pulp takes ink unevenly and the tray is specified plain
- Identification is by an embossed tool mark in the flange, moulded rather than applied
- The flange is the only surface on the tray wide enough to emboss legibly
- Added colour is available at tooling only, as dyed stock, at a 50,000 minimum

Tolerances

- Overall length and width ±2 mm — a moulded part shrinks unevenly as it dries
- Overall height ±1.5 mm; flange flatness ±1 mm across a diagonal
- Cavity diameter ±1.5 mm; cavity depth ±1 mm
- Wall thickness ±0.2 mm

Applications

- Twelve round or jarred goods that have to arrive in the same places they left in
- Packs that have to close without a second component being bought
- Produce, eggs, preserves, candles and small glassware under 400 g a piece
- Direct replacement for a vacuum-formed plastic insert and its clear lid together



Three-quarter



Nested

SPECIFY

The rim is the product. Two pulp trays with the same cavity, the same wall and the same stock are not interchangeable, and the thing that separates them is a flange. A plain rim seats twelve items; a flanged one seats twelve items and closes over them, either under a board lid or under a second tray turned upside down. Specify the twelve when the pack has to shut, not merely when the count is twelve.

WET-PRESS

NESTABLE

FLANGED RIM

UNCOATED

AT A GLANCE

Format	Moulded pulp tray
Cavities	12, in 3 × 4
Cavity	70 mm Ø, 34 mm deep
Overall	320 × 240 × 42 mm
Rim	Flanged, takes a lid
Cavity load	400 g

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	TOOL	STOCK	FINISH	PACK
CP-PLP	T12 12 cavity, 320 × 240 mm	N Recycled newsprint	P Plain, uncoated	240 Nested, 240 per layer
	T06 6 cavity, 240 × 160 mm	—	E Embossed tool mark	PL Pallet, 8 layers
			—	

Example

CP-PLP-T12-N-E-240

Twelve cavity tray, recycled newsprint stock, embossed tool mark in the flange, supplied nested two hundred and forty to a pallet layer.

- The code carries a tool, not a size. Unlike the board families, there are no four-digit footprints here — a moulded part is whatever its tool makes it, and the tool is the thing being ordered.
- T12 and T06 share a stock, a wall and a cavity. They do not share a tool, and there is no route from one to the other.
- There is no lid code. A board lid is ordered against the board families and cut to the tray, and a second tray inverted is simply two of the same line on the order.
- E is an embossing on the existing tool, not a print operation. It carries no set-up charge and no lead time; a change to what it says carries both.

SIZES, MINIMUM ORDER AND LISTINGS

CODE	INTERNAL SIZE, L × W × D	MINIMUM · LEAD	LISTINGS
CP-PLP-T12	320 × 240 × 42 mm	1,000 · 8 days	  

Minimum order and lead time are held against the tool in the catalogue record and are shown in the table above. Lead time runs from order receipt; an embossed flange adds six weeks to a new tool and nothing to a repeat order.

ACCESSORIES, ORDERING

CODE	ITEM	MINIMUM	LEAD
CP-CTN-RSC1	Shipping carton, RSC	250	5 days
CP-VF-CR18	Crinkle void fill	4 cartons	2 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 two tools. A bespoke cavity needs new forming tooling at a 50,000 minimum and a 10 week lead, of which 6 weeks is the tool. Before committing, try the item in the 70 mm cavity with the tray closed rather than open — the twelve is specified far more often for what it does with a lid on than for what its cavity measures, and an item that clears the rim by a millimetre in an open tray fouls the lid in a closed one.

ARTWORK AND PROOFING

REQUIREMENT	
Supply format	Not applicable — the tray is not printed
Embossing	Vector outline only, 1:1 scale, minimum stroke 1.5 mm. The emboss is cut into the tool and cannot be changed after it is cut
Emboss area	Flange only, 90 × 10 mm on the long side. The flange is the widest flat the tray has
Minimum type	10 pt. Moulded type below that closes up as the part dries
Colour	None. Dyed stock is a tooling-stage decision and is quoted against the run, not against the artwork
Branding route	The board lid. It is printed to the board family's own specification and carries whatever the pack has to say
Proof round	One moulded sample from the cut tool, before the run. There is no proof stage after that

There is no artwork approval on a plain tray. Where the pack closes under a printed lid, the artwork stage belongs to the lid and runs to the board family's lead time, not this one.

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MECHANICAL PERFORMANCE

	CP-PLP-T12	CP-PLP-T06
Overall size	320 × 240 × 42 mm	240 × 160 × 38 mm
Cavity count	12, in 3 × 4	6, in 2 × 3
Cavity diameter	70 mm	70 mm
Cavity depth	34 mm	30 mm
Cavity pitch	80 mm	80 mm
Wall thickness	1.1 mm	1.1 mm
Wall density	0.62 g/cm ³	0.62 g/cm ³
Cavity load	400 g	400 g
Nested pitch	5 mm	5 mm
Rim	Flanged, takes a lid	Plain
Unit weight	78 g	46 g

TEST CONDITIONS

- The two tools share a cavity, a pitch, a wall and a stock. What differs is the count, the depth and the rim — and the rim is the difference that decides most specifications, because it is the one that closes a pack.
- The cavity is four millimetres deeper here and the nest pitch is unchanged. That is not a rounding: the pitch on this tray is set at the rim rather than in the cavity, for the reason given under *The rim* on page one.
- Cavity load is per cavity and is not additive. Twelve cavities at 400 g does not make a 4.8 kg tray; it makes twelve 400 g cavities in a tray that carries no stack of its own.
- Every figure on this sheet is inferred from the nearest ratified family member. Nothing here has been through a test house.

RELATIVE CAPACITY

Transit height, one hundred trays

Made up, not nested		4,200 mm
Nested, this tray		537 mm
Nested, 6 cavity		533 mm
Plastic insert, nested		495 mm

SERVICE AND STORAGE

Service temperature	0 °C to 60 °C, dry
Storage humidity	40 – 60 % RH
Wet strength	None – the tray softens rather than fails
Shelf life, nested	Indefinite dry, in the original carton

PULP SPECIFICATION

Material	Recycled wet-press pulp
Wall thickness	1.1 mm nominal
Cavity count	12, in 3 × 4
Compostable	Industrial, 180 days

CHOOSING A TOOL BY PACK

PACK	SPECIFY	WHY
Twelve items, and the pack must close	CP-PLP-T12	The flanged rim takes a board lid, or a second tray inverted. Nothing else has to be bought
Twelve items, open to the customer	CP-PLP-T12	Same tray, no lid. The flange is a wider rim to hold it by, not an obligation
Six of the same item	CP-PLP-T06	Same cavity and same wall on a smaller footprint. Half a twelve loaded is a tray that leans
Items over 70 mm, or not round	Not this family	Specify CP-DIV divider inserts: a wall on four sides fits what a fixed cavity will not

Size to the item at its widest, and then check it again with the pack closed. A drafted cavity is 70 mm at the rim and narrower at the floor, and an item that only just goes in is an item that stands proud — which on this tray means the lid does not sit down.

TEST METHODS

FIGURE	METHOD	CONDITIONING
Cavity load	Static load applied to the cavity floor through a 70 mm disc, increased until wall deflection reaches 2 mm	23 °C / 50 % RH, 24 h
Destack force	Vertical separation of the top tray from a column of ten, measured at the flange, five columns	23 °C / 50 % RH, 24 h
Flange flatness	Feeler gauge under a straightedge laid across each diagonal of the rim, ten trays	23 °C / 50 % RH, 24 h
Wall thickness	Micrometer at twelve points: three cavity walls, three cavity floors, three on the flat, three on the flange	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 tray is put through them.

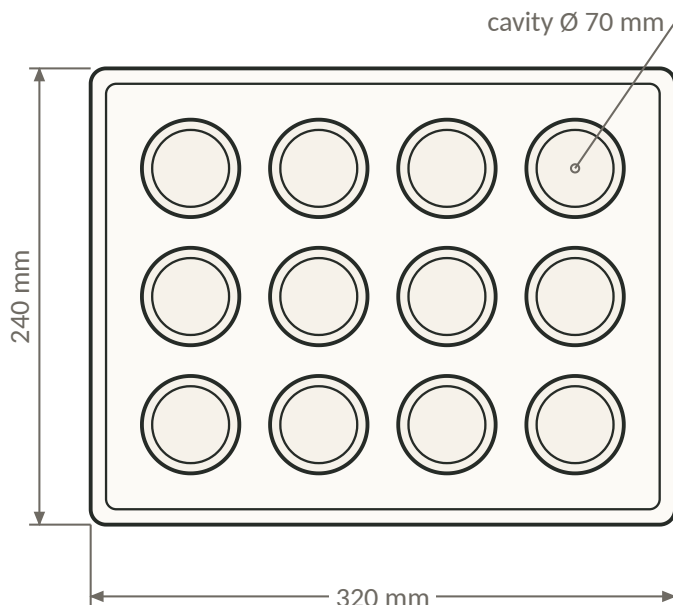
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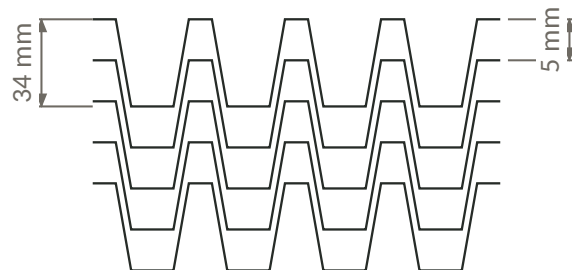
CP-PLP-T12 320 × 240 × 42 mm

OVERALL AND CAVITY

PLAN, 12 CAVITY



SECTION, NESTED



flanged rim takes a board lid

moulded in one piece · 12 cavities per tray · no assembly, no fasteners

Every dimension on this sheet is in millimetres. A moulded tray has no internal and external pair the way a box does: the wall is 1.1 mm and the overall figures are taken across it. Cavity figures are at the rim, which is the widest point of a drafted cavity, and the overall length and width are taken across the flange.

MEASUREMENTS

Overall length	320 mm
Overall width	240 mm
Overall height	42 mm
Cavity diameter	70 mm
Cavity depth	34 mm
Nested pitch	5 mm

MOULDED TRAY

Overall	320 × 240 × 42 mm
Cavity diameter, at the rim	70 mm
Cavity depth	34 mm
Cavity pitch, both axes	80 mm
Flange width	14 mm
Emboss area, flange	90 × 10 mm

PALLETISATION

Pallet	1200 × 1000 mm
Trays per layer	240, nested
Layers per pallet	8
Pallet height, wrapped	1,140 mm



Three-quarter



Nested