

Moulded pulp tray, six cavity

WET-PRESS · NESTABLE · BINDER-FREE

CP-PLP-T06 240 × 160 × 38 mm

PROJECT	CATALOG NO.	TYPE	DATE
---------	-------------	------	------

PRODUCT DESCRIPTION

A wet-press moulded pulp tray formed from recycled newsprint and water, with no binder, coating or added colour. Six drafted cavities on an 80 mm pitch hold six round items in known places, and the draft is what lets a column of trays nest to about a fifth of its made-up height in transit and then come apart again one at a time at the line.

Forming

- Wet-press: formed against a tool and pressed dry in the same shape, not dry-pressed
- Cavity draft 4° per wall — this is what makes it nest and what makes it destack
- Three 0.8 mm destack lugs moulded into each cavity floor, breaking the vacuum between trays
- No binder, no coating, no release agent and no added colour anywhere in the process

Material and wall

- Recycled wet-press pulp, principally post-consumer newsprint
- Wall thickness 1.1 mm nominal, held across the cavity wall and the flat
- Wall density 0.62 g/cm³ against roughly 0.38 for the same tray dry-pressed
- Free moisture at demould 55%; the tray leaves the dryer at 8% and holds there

Geometry

- Six cavities in a 2 × 3 array, 70 mm diameter, 30 mm deep
- Cavity pitch 80 mm both axes; overall 240 × 160 × 38 mm
- Rim is plain and unflanged — the tray takes no lid, which is the twelve cavity's job
- Nested pitch 5 mm, so a made-up height of 38 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 column of trays carries its own stack and nothing else; the outer carton takes the load
- Unit weight 46 g
- Service temperature 0 °C to 60 °C dry; the tray softens rather than fails when wet

Printing

- Not printed. Wet-press pulp takes ink unevenly and the tray is specified plain
- Identification is by an embossed tool mark in the rim, moulded rather than applied
- A printed board lid or band is the usual route where the pack has to carry a brand
- 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 as it dries and the shrink is not perfectly even
- Overall height ±1.5 mm
- Cavity diameter ±1.5 mm; cavity depth ±1 mm
- Wall thickness ±0.2 mm

Applications

- Six round or jarred goods that have to arrive in the same places they left in
- Retail-visible packs where the tray itself is part of what the customer sees
- Produce, eggs, candles, cosmetics and small glassware under 400 g a piece
- Direct replacement for a vacuum-formed plastic insert of the same cavity count



Three-quarter



Top · Nested



SPECIFY

A tray seats; it does not carry. Each cavity holds one item in a known place and keeps it off its neighbours, and that is the whole of what the tray does. It is not a structural part: a column of trays supports its own weight and nothing more, and everything above it in the pallet is carried by the outer carton. Specify the carton for the load and the tray for the arrangement.

WET-PRESS

NESTABLE

BINDER-FREE

UNCOATED

AT A GLANCE

Format	Moulded pulp tray
Cavities	6, in 2 × 3
Cavity	70 mm Ø, 30 mm deep
Overall	240 × 160 × 38 mm
Nested pitch	5 mm
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.

Moulded pulp tray, six cavity

WET-PRESS · NESTABLE · BINDER-FREE

CP-PLP-T06 240 × 160 × 38 mm

BUILD THE CODE

SERIES	TOOL	STOCK	FINISH	PACK
CP-PLP	T06 6 cavity, 240 × 160 mm	N Recycled newsprint	P Plain, uncoated	300 Nested, 300 per layer
	T12 12 cavity, 320 × 240 mm	—	E Embossed tool mark	PL Pallet, 8 layers
			—	

Example

CP-PLP-T06-N-P-300

Six cavity tray, recycled newsprint stock, plain uncoated finish, supplied nested three hundred 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.
- T06 and T12 share a stock, a wall and a cavity. They do not share a tool, and there is no route from one to the other.
- 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-T06	240 × 160 × 38 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; there is no artwork stage on a plain tray.

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 on its side — a drafted cavity tolerates an undersized item far better than an oversized one, because an item that sits proud of the rim is an item the next tray lands on.

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	Rim only, 60 × 12 mm. There is no flat on the tray large enough to take anything else
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	A printed board lid, band or sleeve. The tray carries the arrangement; the board carries the brand
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, so the lead time in the table above runs from order receipt. An embossed tool adds nothing to a repeat order and six weeks to a new one.

Moulded pulp tray, six cavity

WET-PRESS · NESTABLE · BINDER-FREE

CP-PLP-T06 240 × 160 × 38 mm

MECHANICAL PERFORMANCE

	CP-PLP-T06	CP-PLP-T12
Overall size	240 × 160 × 38 mm	320 × 240 × 42 mm
Cavity count	6, in 2 × 3	12, in 3 × 4
Cavity diameter	70 mm	70 mm
Cavity depth	30 mm	34 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	Plain	Flanged, takes a lid
Unit weight	46 g	78 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.
- Cavity load is per cavity and is not additive. Six cavities at 400 g does not make a 2.4 kg tray; it makes six 400 g cavities in a tray that carries no stack of its own.
- Nested pitch is measured rim to rim on a column of ten. A shorter column reads slightly higher per tray, because the bottom two carry no compression.
- 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		3,800 mm
Nested, this tray		533 mm
Nested, 12 cavity		537 mm
Plastic insert, nested		460 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	6, in 2 × 3
Compostable	Industrial, 180 days

CHOOSING A TOOL BY PACK

PACK	SPECIFY	WHY
Six round items, under 70 mm	CP-PLP-T06	The cavity holds them apart and the tray is what the customer opens onto
Twelve of the same item	CP-PLP-T12	Same cavity and same wall on a half-pallet footprint; not two sixes
Six items, and the pack must close	CP-PLP-T12	The six has a plain rim and takes no lid. A closed pulp pack means the flanged rim
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, not at its base. 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 sits proud — which the next tray down the column will land on.

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 rim, five columns	23 °C / 50 % RH, 24 h
Wall thickness	Micrometer at nine points: three cavity walls, three cavity floors, three on the flat	23 °C / 50 % RH, 24 h
Wall density	Mass of a 25 mm punched disc against its measured thickness, ten discs from three trays	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.

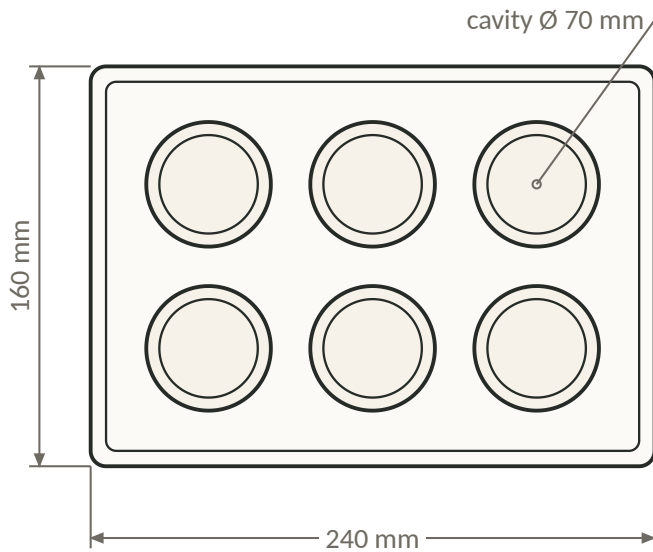
Moulded pulp tray, six cavity

WET-PRESS · NESTABLE · BINDER-FREE

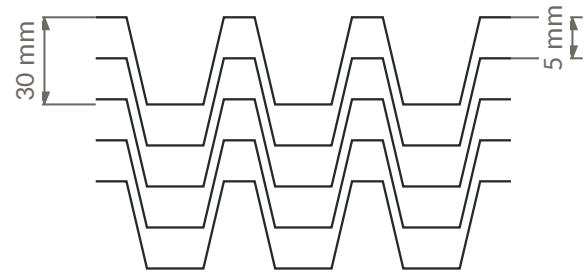
CP-PLP-T06 240 × 160 × 38 mm

OVERALL AND CAVITY

PLAN, 6 CAVITY



SECTION, NESTED



nests to ~1/5 of made-up height

moulded in one piece · 6 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.

MEASUREMENTS

Overall length	240 mm
Overall width	160 mm
Overall height	38 mm
Cavity diameter	70 mm
Cavity depth	30 mm
Nested pitch	5 mm

MOULDED TRAY

Overall	240 × 160 × 38 mm
Cavity diameter, at the rim	70 mm
Cavity depth	30 mm
Cavity pitch, both axes	80 mm
Rim width	10 mm
Emboss area, rim	60 × 12 mm

PALLETISATION

Pallet	1200 × 1000 mm
Trays per layer	300, nested
Layers per pallet	8
Pallet height, wrapped	1,140 mm



Three-quarter



Top



Nested