

Resin Mold Measurement Worksheet

By ResinBatch • Free cavity and batch planning record

For an editable copy, [open the Google Docs master](#), then choose File → Make a copy. You can also print this template. Fill in inside dimensions and intended fill depth. Keep units consistent within each calculation.

Your mold

Mold / cavity ID: _____
Shape: ☐ Round ☐ Rectangle ☐ Known capacity ☐ Irregular
Measurement unit: ☐ cm ☐ mm ☐ inches
Inside diameter (round): _____
Inside length × width (rectangle): _____
Intended fill depth: _____
Verified capacity and volume unit (if known): _____
Capacity source / measurement method: _____
Number of identical cavities: _____
Inclusions / details that affect capacity: _____

Calculate the volume

Rectangle: length × width × depth.
Round: $\pi \times (\text{diameter} \div 2)^2 \times \text{depth}$.
 $\text{cm}^3 = \text{mL}$. Divide mm^3 by 1,000 to get mL.
Multiply cubic inches by 16.387064 to get mL.
US fluid ounces = mL ÷ 29.5735295625.
These convert volume only, not resin weight.

Volume per cavity: _____ Unit: _____
Base volume = per cavity × count: _____
Extra allowance chosen (%) and reason: _____
Planned total = base × (1 + extra ÷ 100): _____

Worked example

A flat round cavity 10 cm across and 0.8 cm deep holds about 62.83 mL. Four total 251.33 mL. Choosing 10% extra gives 276.46 mL. Actual capacity can differ for curved or detailed molds; the allowance is an example.

Before mixing

Check the product's ratio and whether it is by weight or volume. Confirm its permitted pour depth, batch size and handling instructions. This worksheet estimates volume; it does not establish a safe pour size.

[Calculate several molds together at ResinBatch](#) • [Read the calculation method](#)