

Multi-Cavity Specimen Mould for Compression Test Bars

Built to ISO 604 — Plastics — Determination of compressive properties



OVERVIEW

Hinged multi-cavity mould for preparing plastic test specimens by compression moulding. The cavity plate forms several multipurpose bars at once, from which ISO 604 prism or bar test pieces are machined, while the hinged cover plate and side handles allow safe loading and unloading in a heated press.

KEY FEATURES

- Multi-cavity plate moulds several multipurpose bars per press cycle
- Hinged cover plate keeps cavity and cover aligned
- Side handles for safe transfer in and out of a heated press
- Ground steel plates give uniform specimen thickness
- Cavity geometry can be made to other ISO specimen types

TECHNICAL SPECIFICATIONS

Cutter type	Compression mould (specimen preparation)
Specimen geometry	Multipurpose bars; ISO 604 pieces machined from them
Cavities	Multiple dumbbell cavities per plate, as shown
Material thickness range	Nominal 4 mm specimen thickness
Construction	Ground steel cavity and cover plates, hinged
Handling	Integral side handles
Press compatibility	Heated laboratory compression presses
Customization	Cavity count and geometry on request

APPLICATIONS

- Thermoplastic compounds and recyclates
- Thermoset moulding compounds
- Resin development laboratories
- Compression test specimen preparation

ABOUT THE STANDARD

ISO 604 specifies a method for determining the compressive properties of plastics under defined conditions. A prism, cylinder or tube test piece is compressed along its major axis at constant speed until fracture or a set deformation. Results include compressive strength, modulus and strain; preferred test pieces are 50 × 10 × 4 mm (modulus) and 10 × 10 × 4 mm (strength).

Ordering & customization: Specify specimen type and thickness, number of cavities and press platen size when ordering.

Specifications are typical and may vary by configuration; confirm at time of quote. Users should refer to the current edition of the standard for test procedures. Part ref. UGC-ISO604-SC